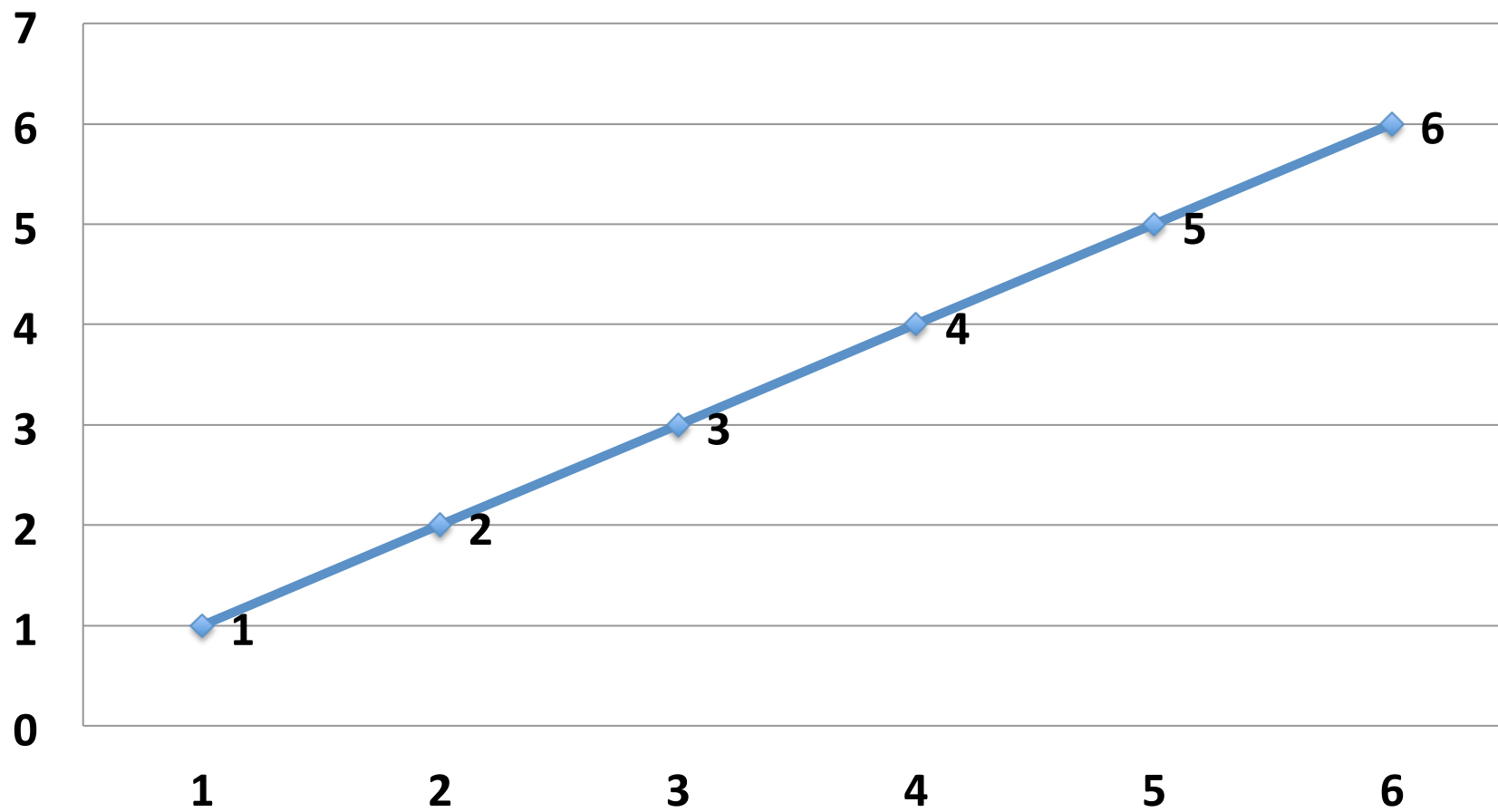


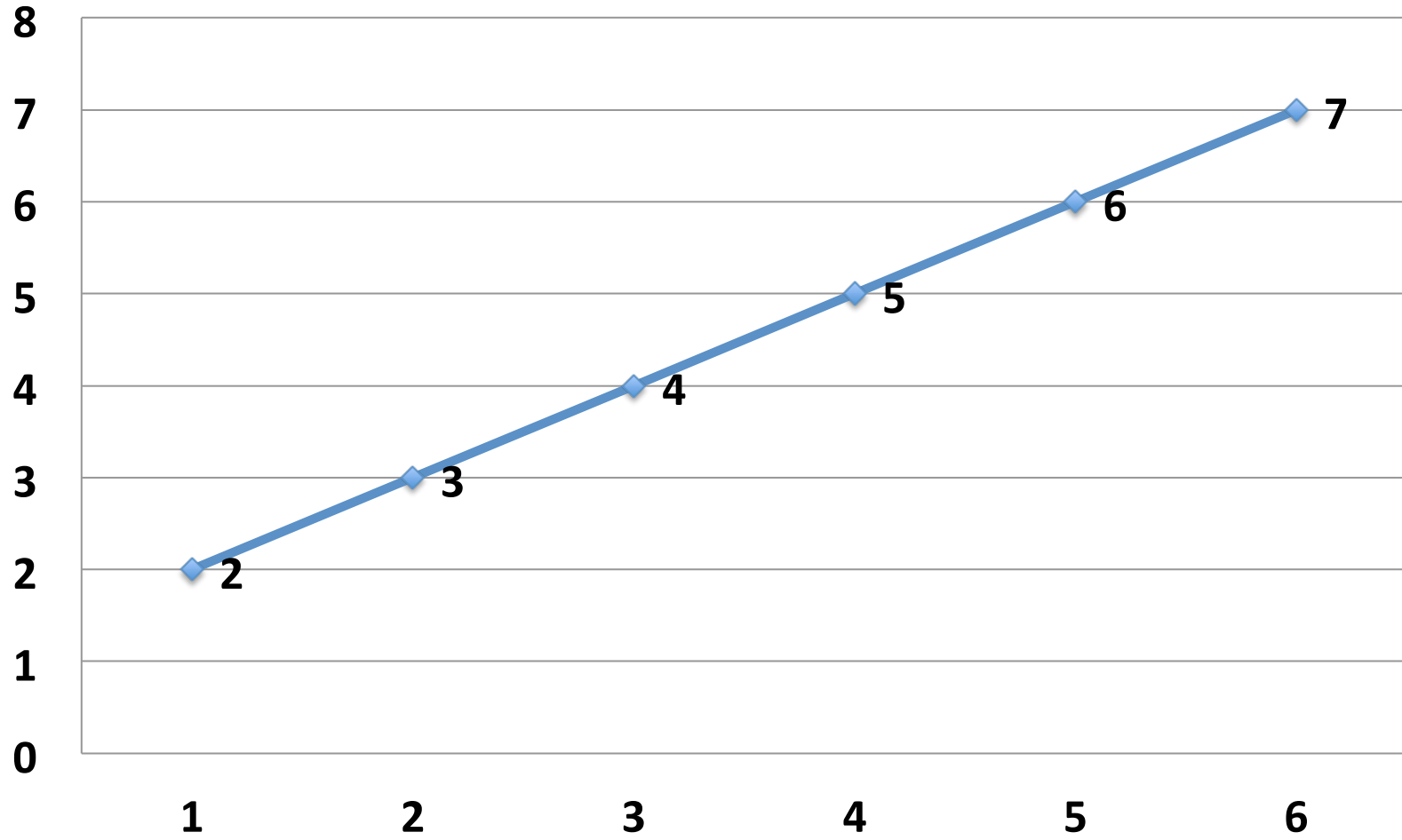
- **7 Chapitres** pour l'usage des Professeurs, un par famille (x,y,z,t,u,v et a). Pas de guide, seulement des graphes pour projection vidéo. Les slides permettent de discuter le jeu et quelques questions au-delà du jeu.
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- Deux cartes sont **vraies jumelles** si leurs formules différentes représentent la même fonction.
- Deux cartes sont **fausses jumelles** si leurs graphes « semblent » identiques mais ne le sont pas. Attention aux unités en ordonnées :-)

LA FAMILLE *x*

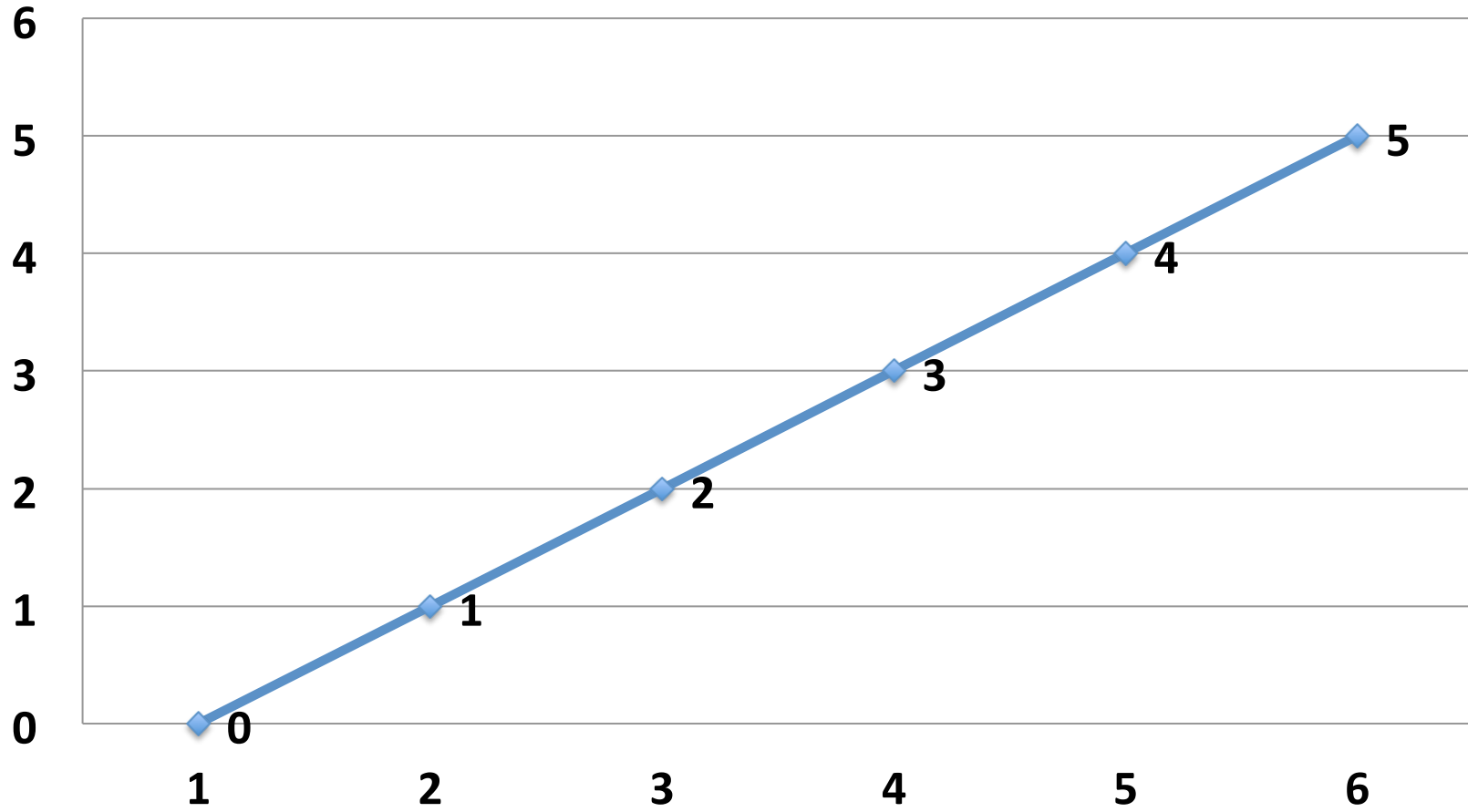
x



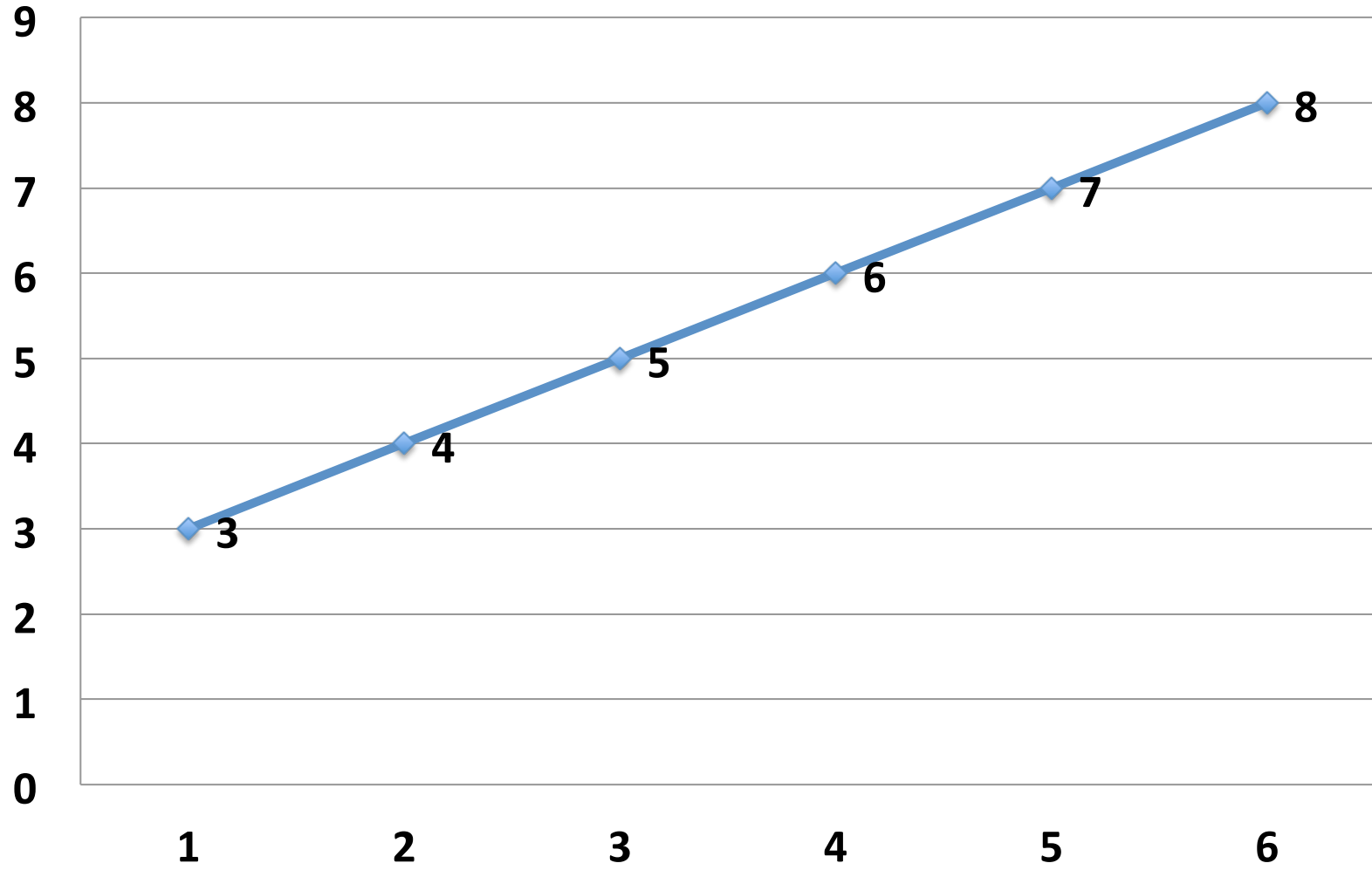
$$x+1$$



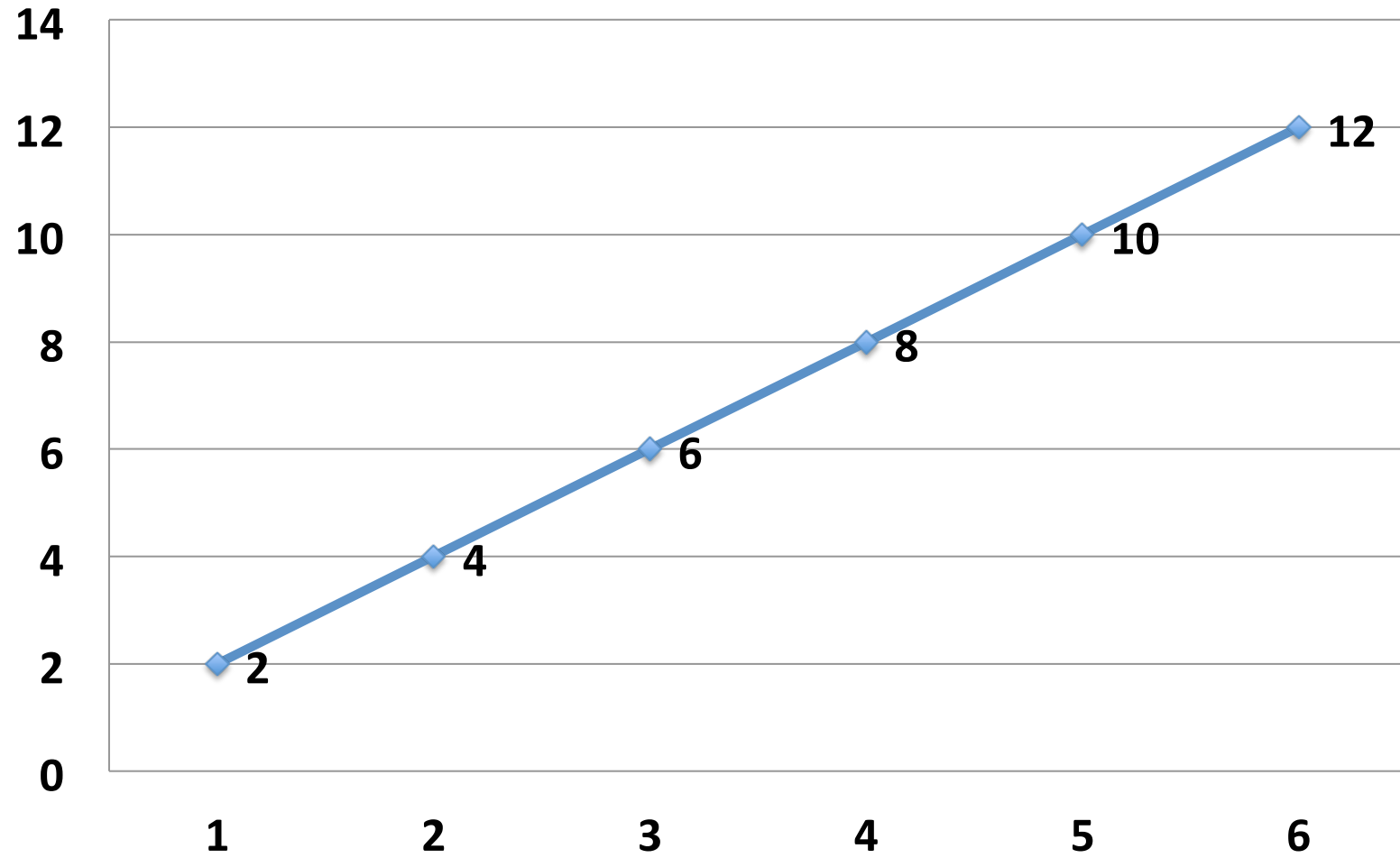
$$x-1$$



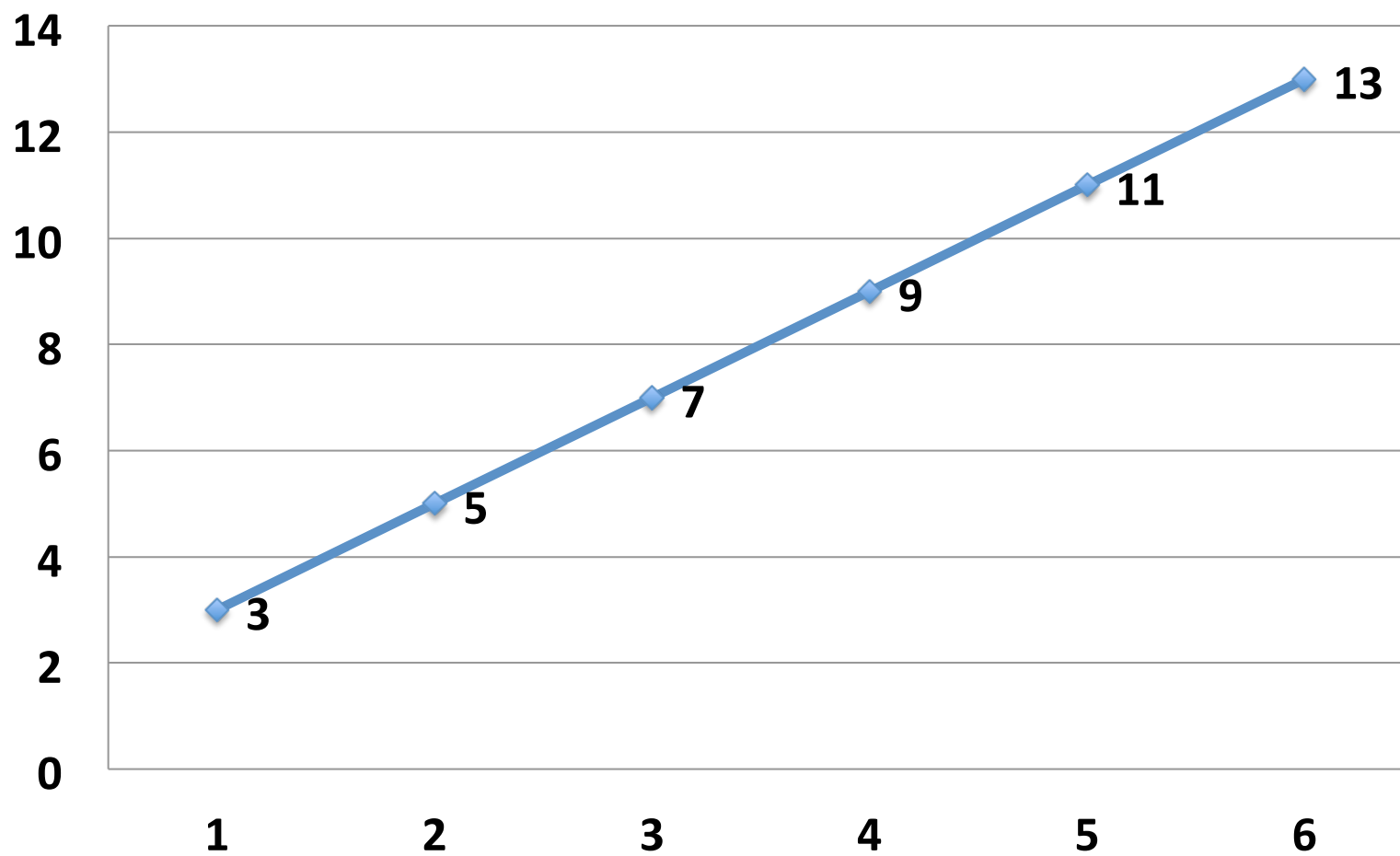
$$x+2$$



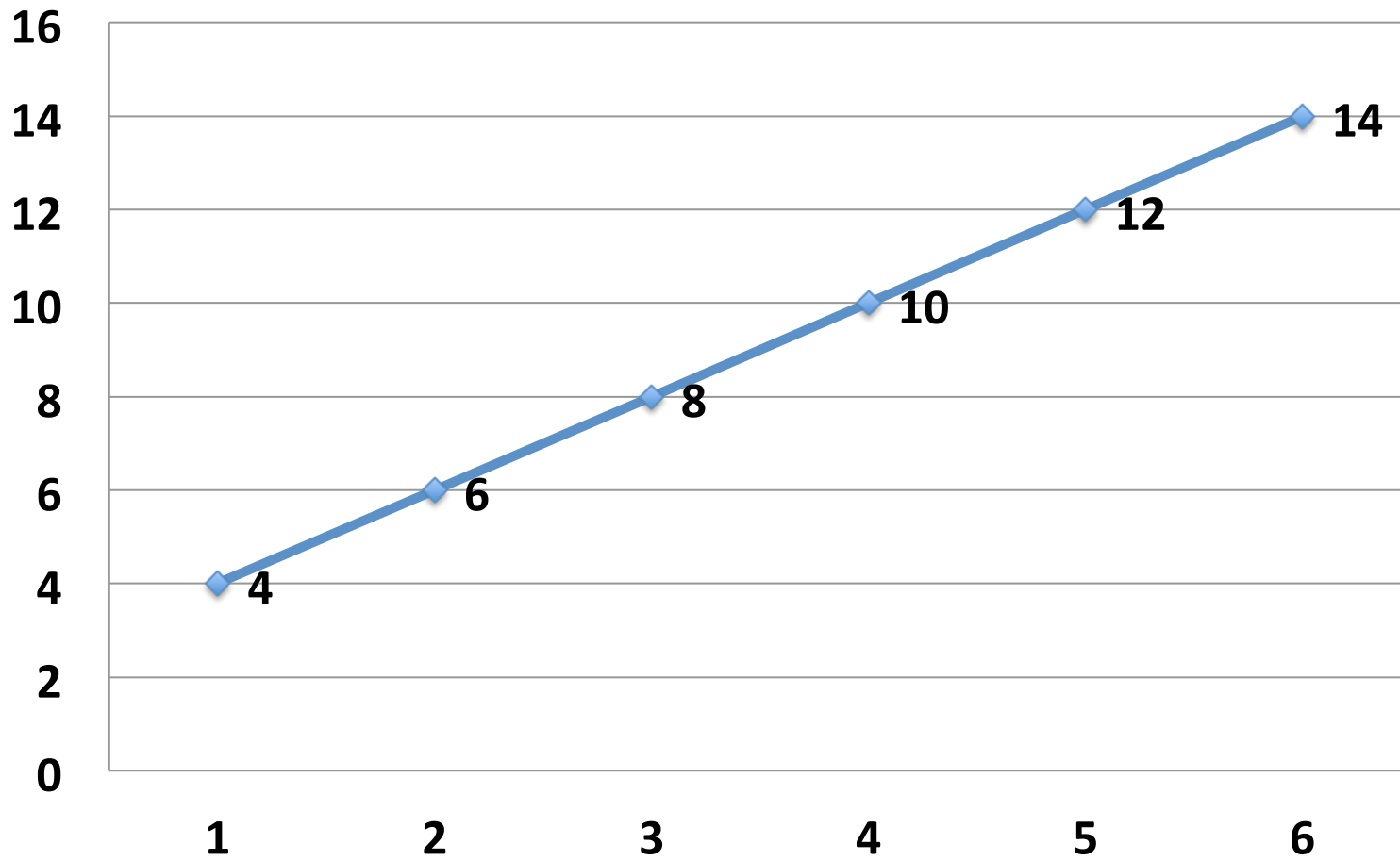
$$2x$$



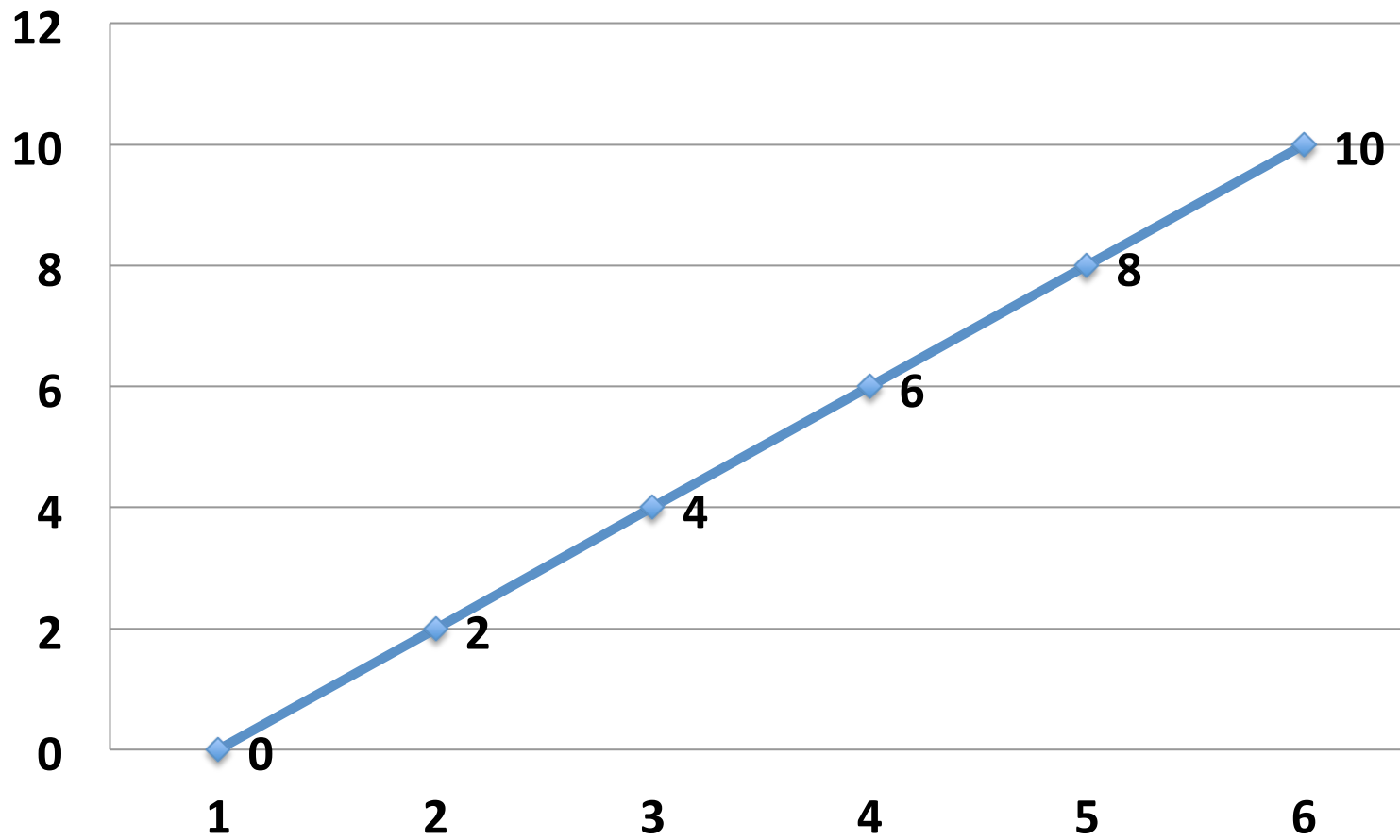
$$2x+1$$



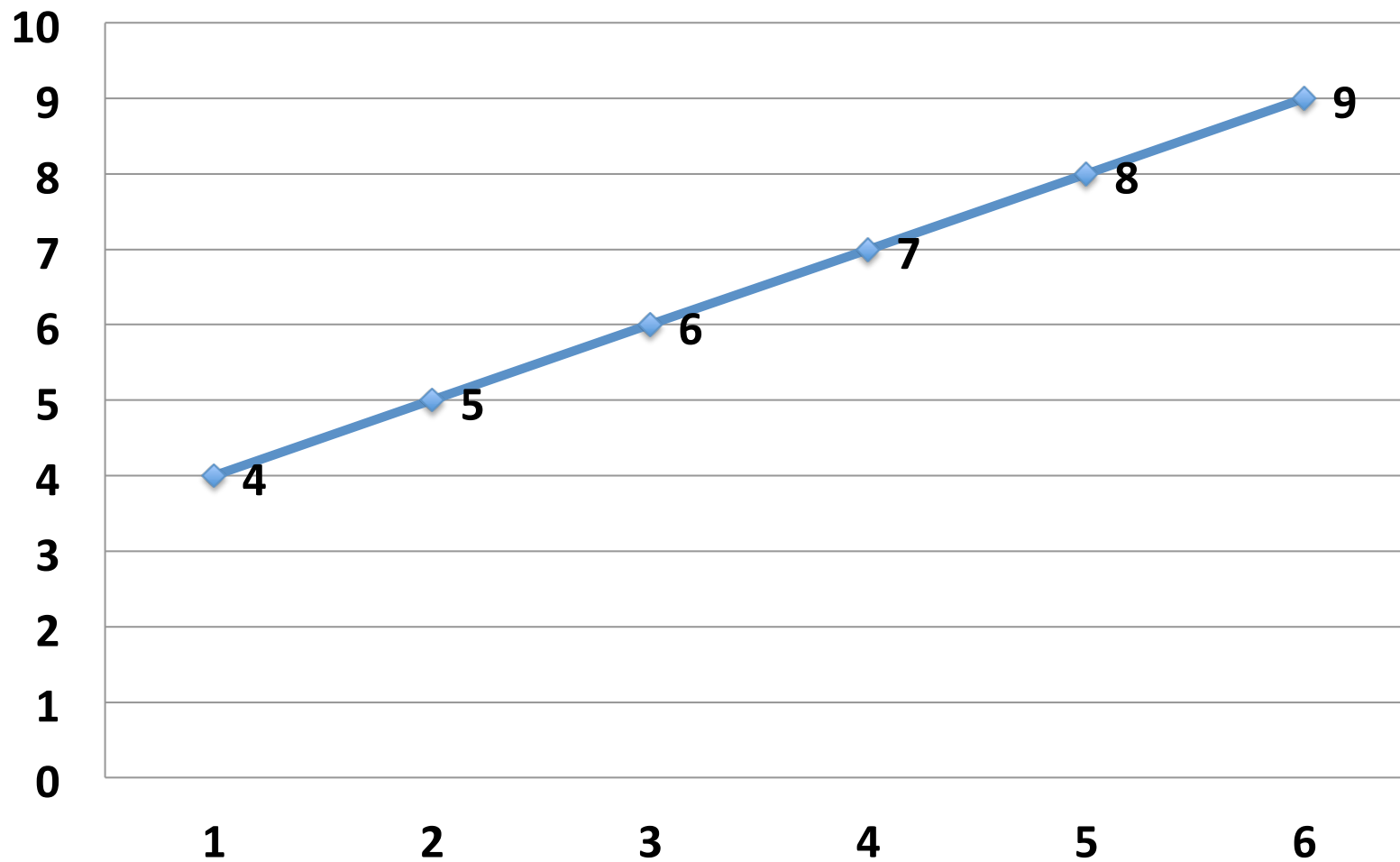
$$2(x+1)$$



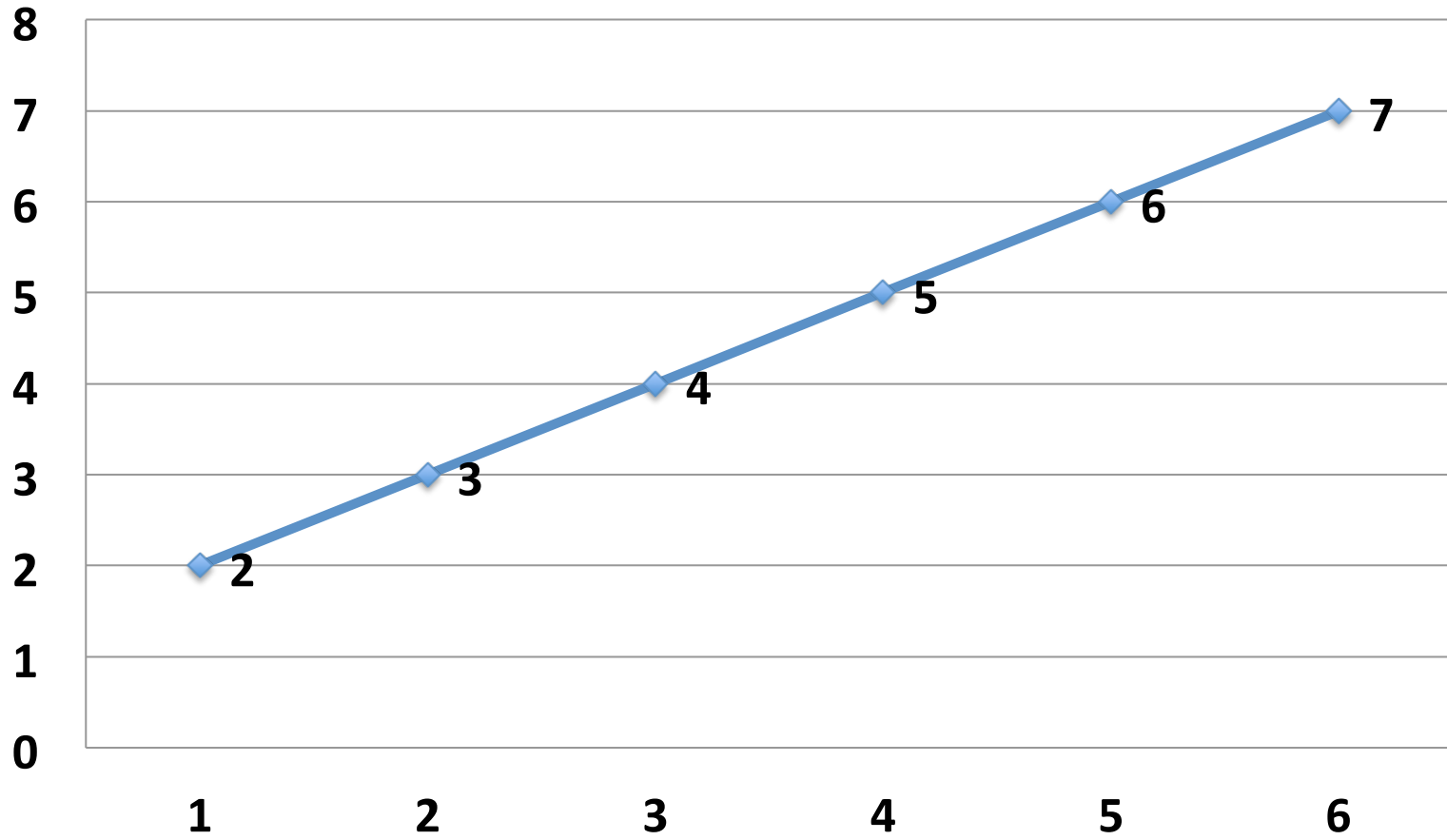
$$2(x-1)$$



$$2x+3-x$$

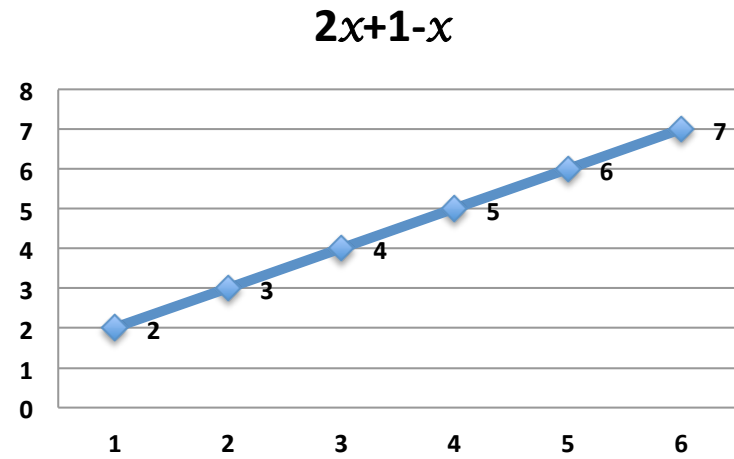
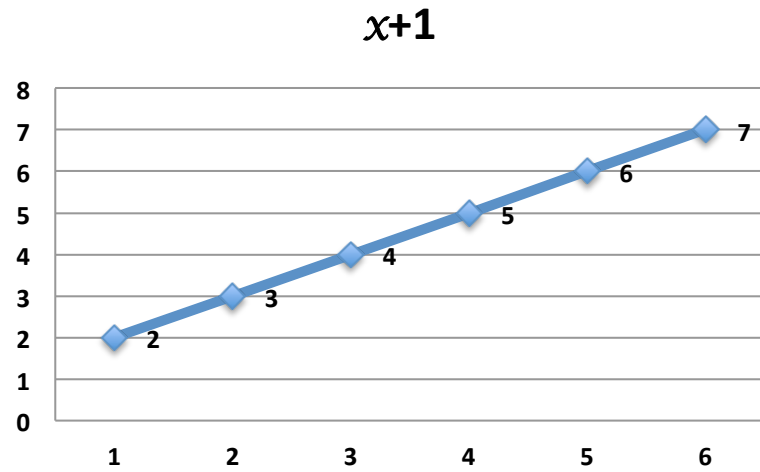


$$2x+1-x$$



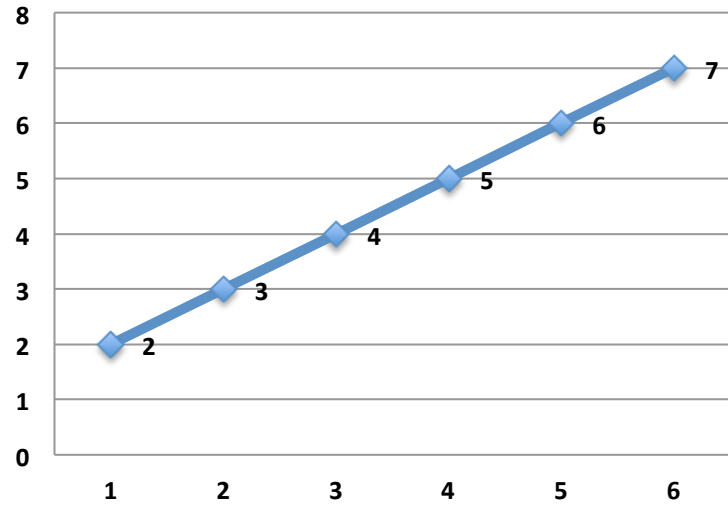
LA FAMILLE x

JUMELLES: VRAIES OU FAUSSES?

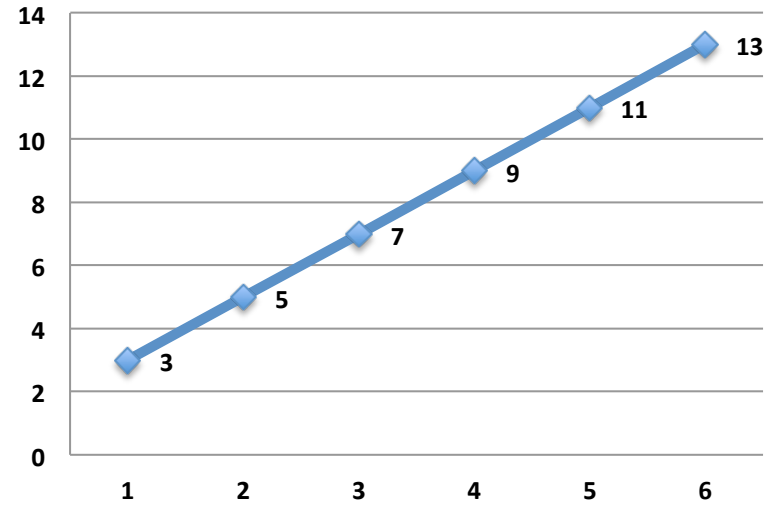


2 JUMELLES: VRAIES OU FAUSSES?

$$x+1$$



$$2x+1$$

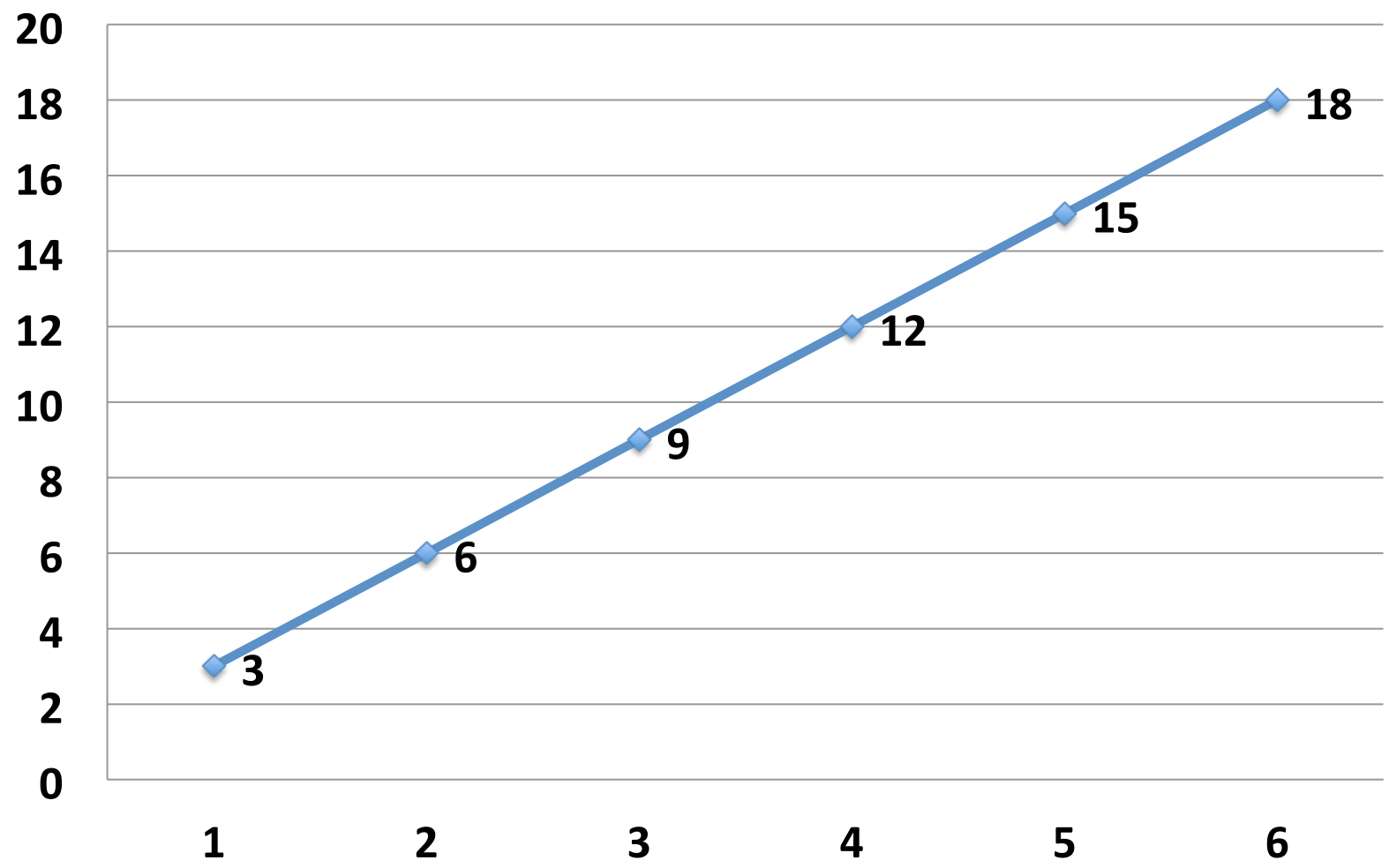


2 JUMELLES: VRAIES OU FAUSSES?

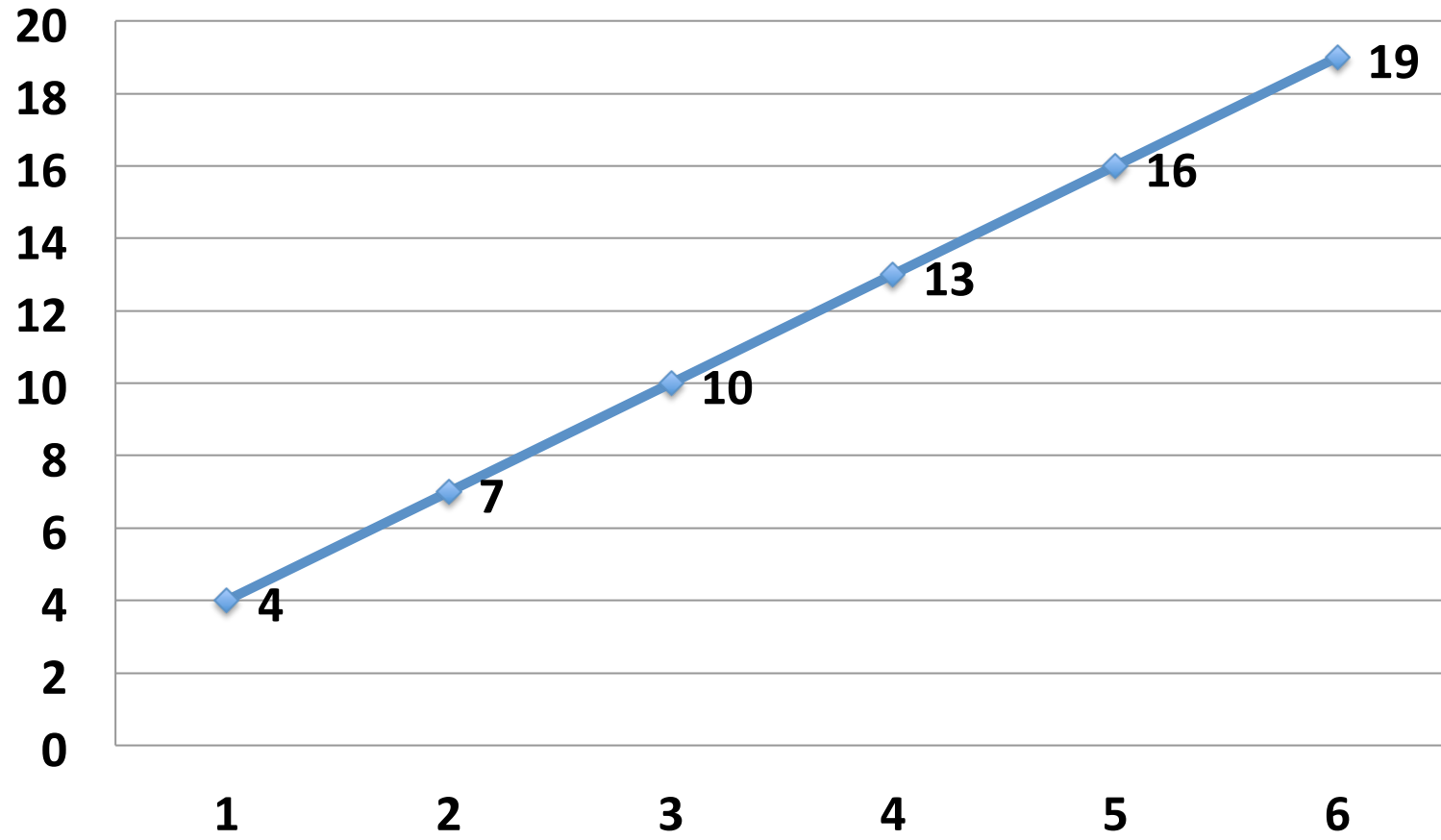
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LA FAMILLE *y*

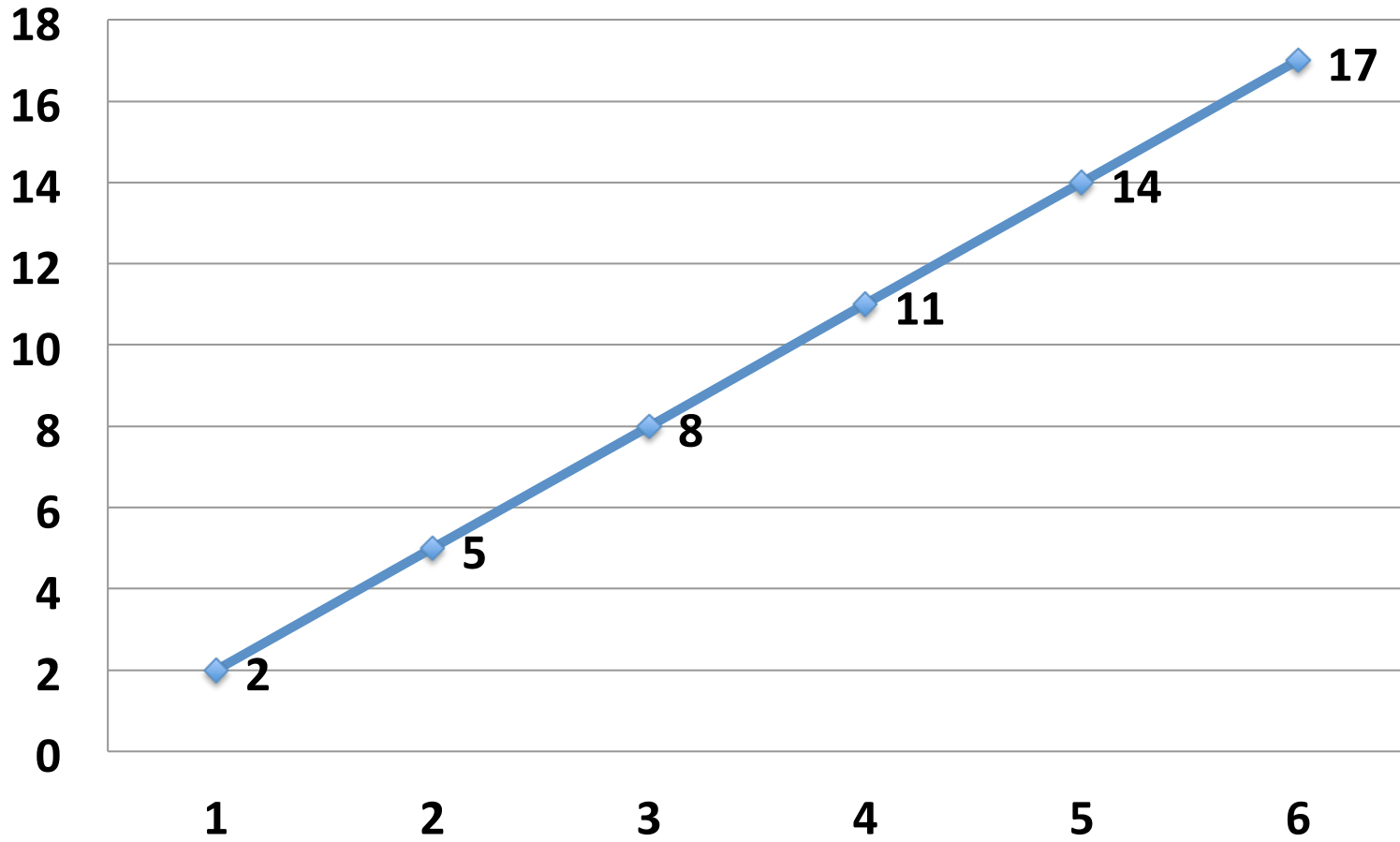
$3y$



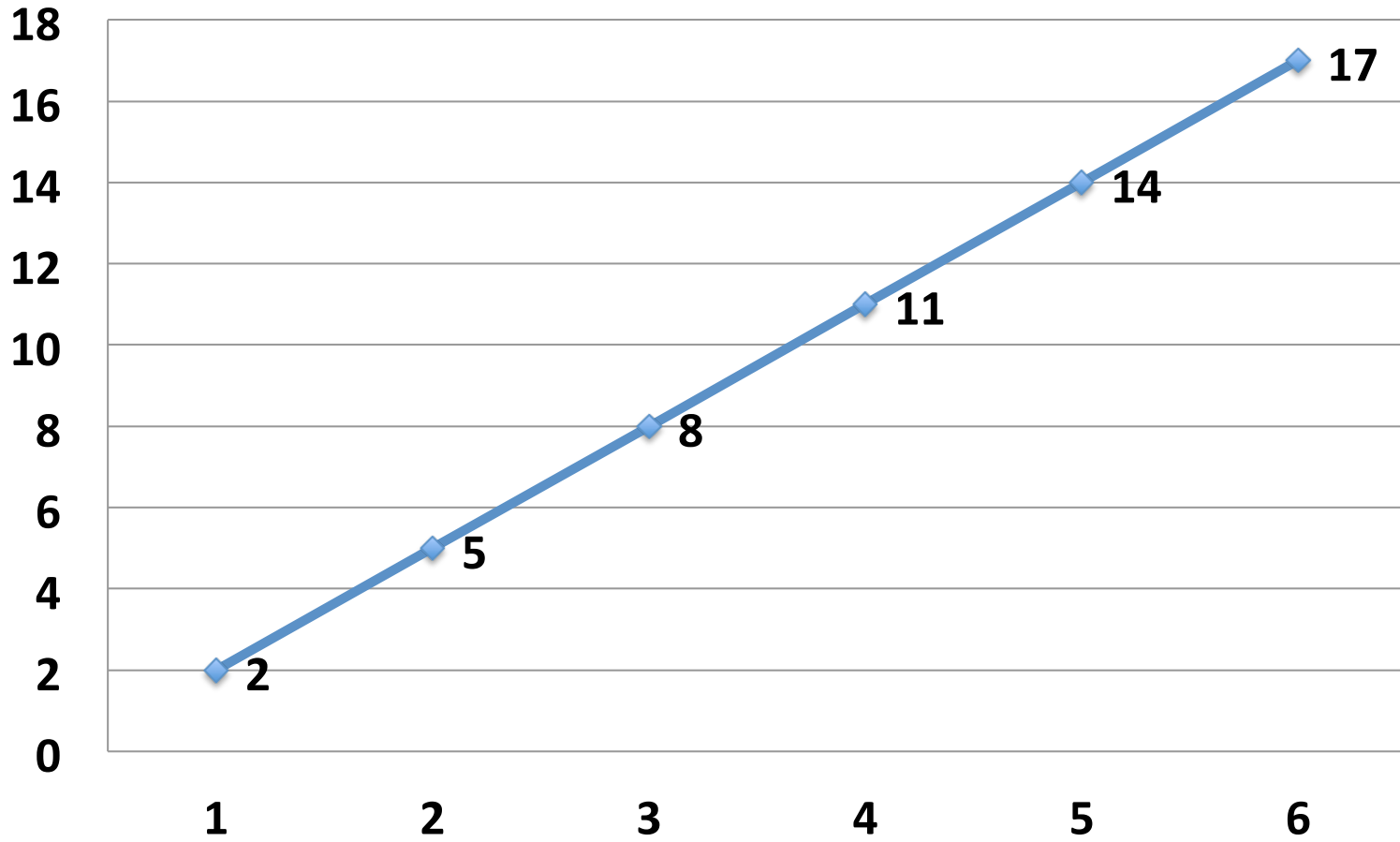
$$3y+1$$



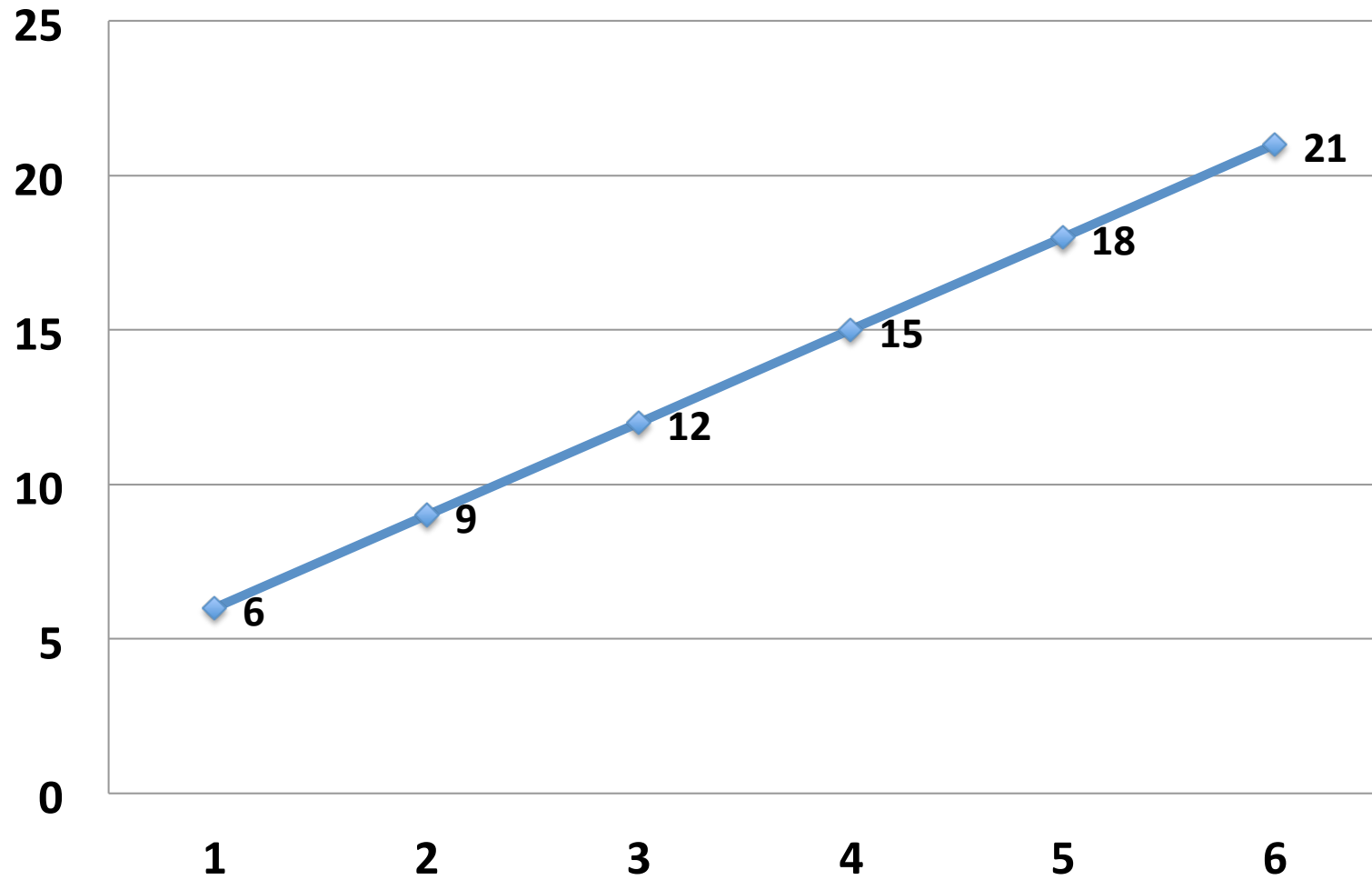
$$3y-1$$



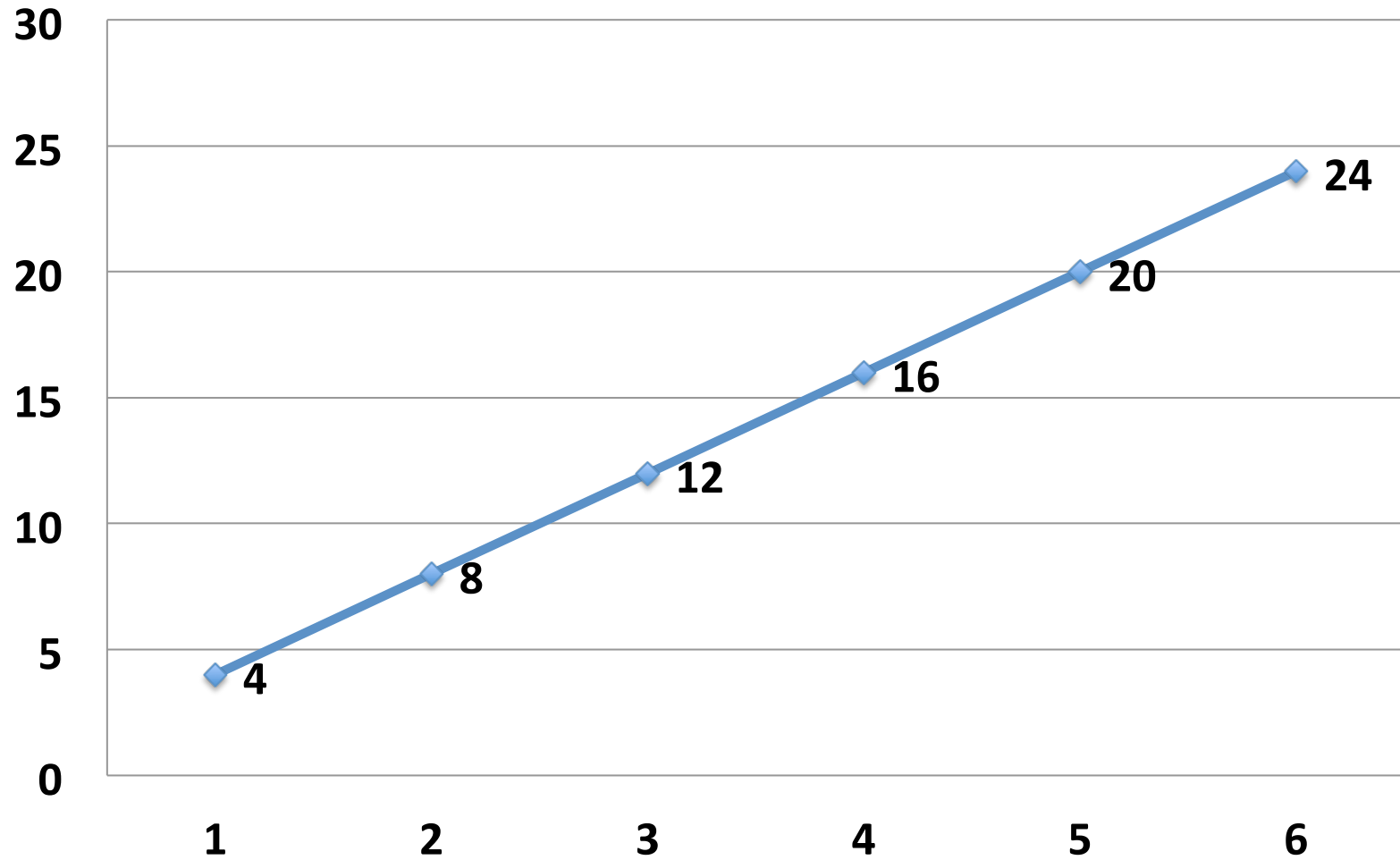
$$3y-1$$



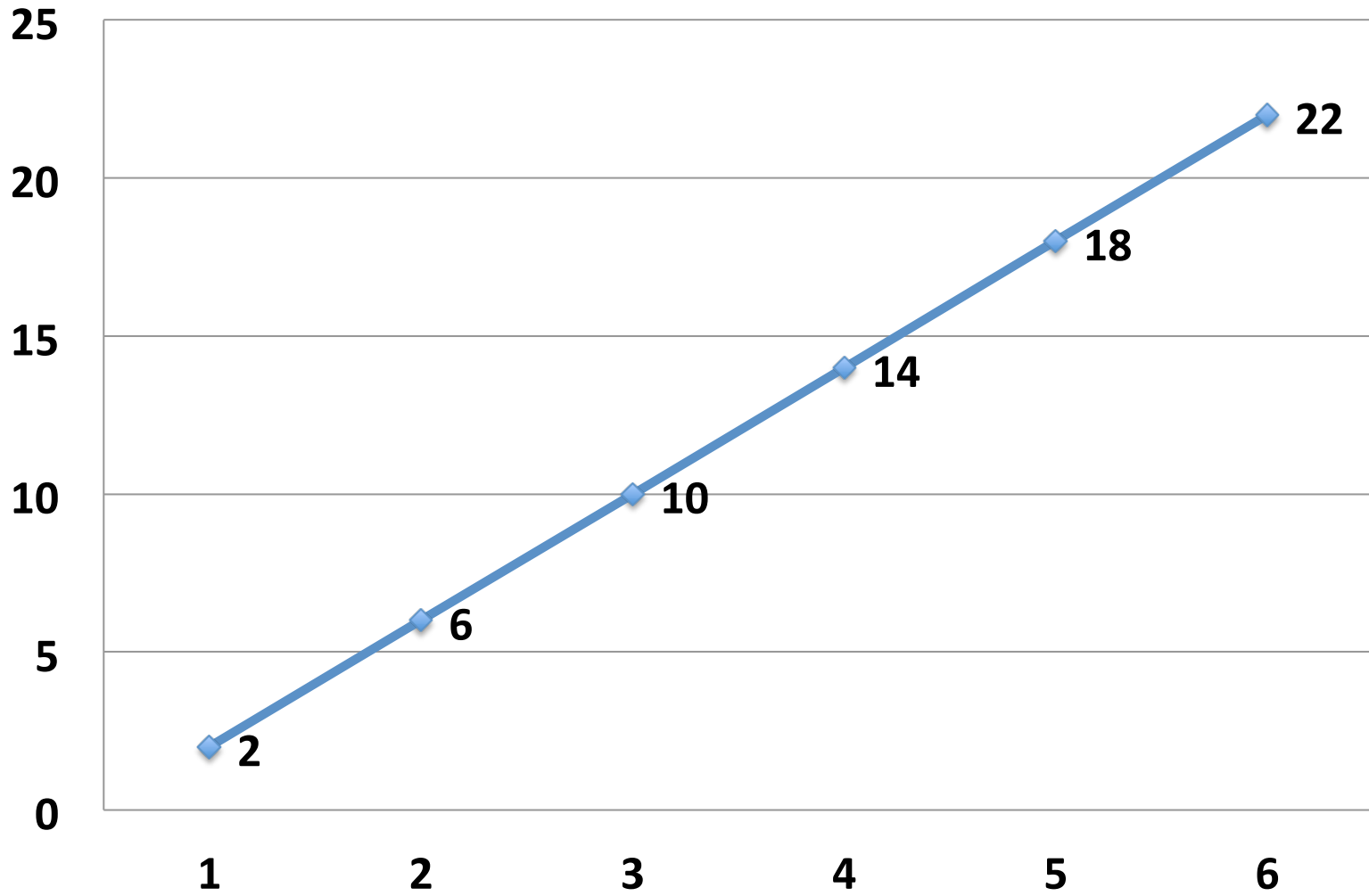
$$3(y+1)$$



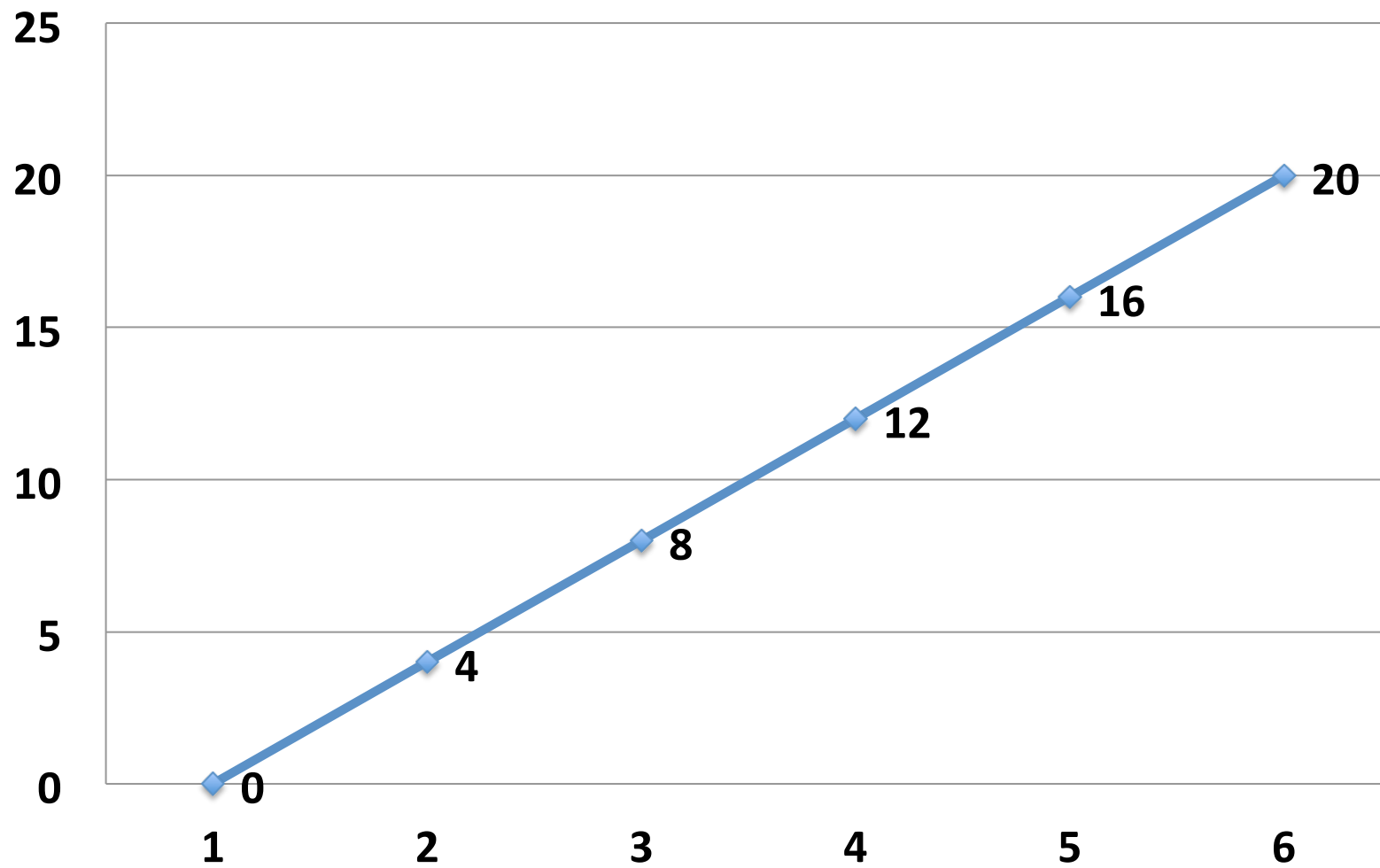
$4y$



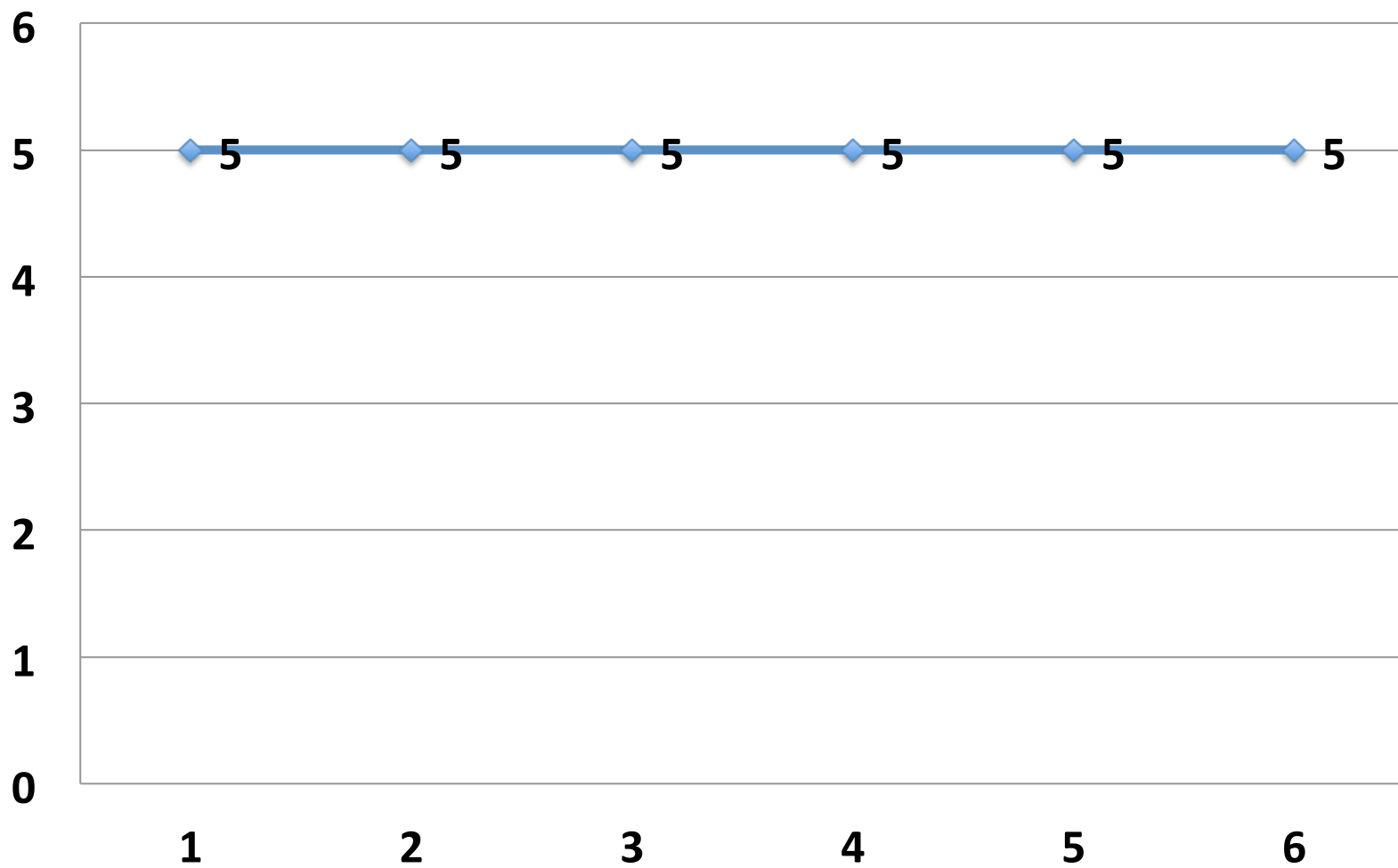
$$4y-2$$



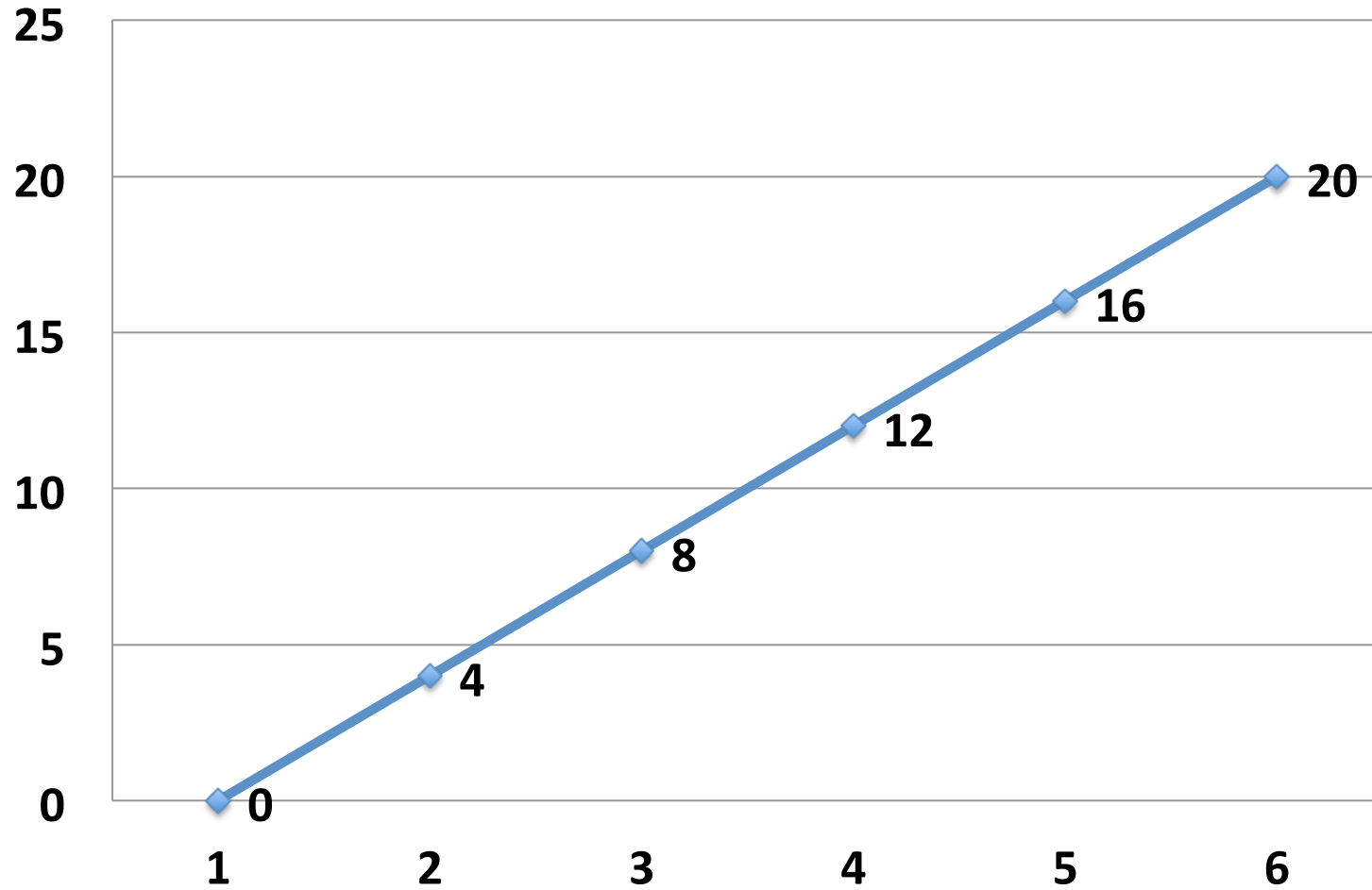
$$4(y-1)$$



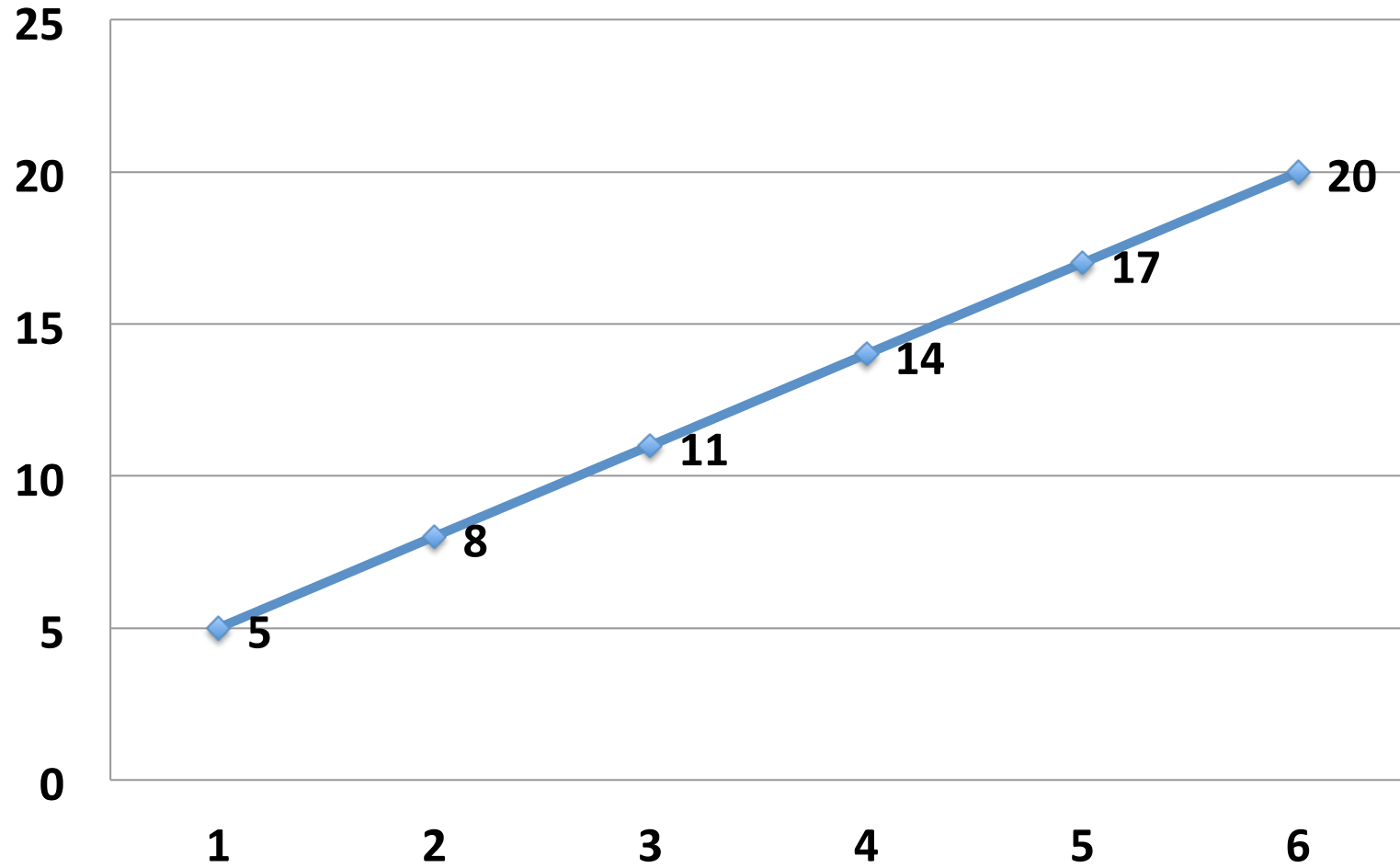
5



$$3y - 4 + y$$

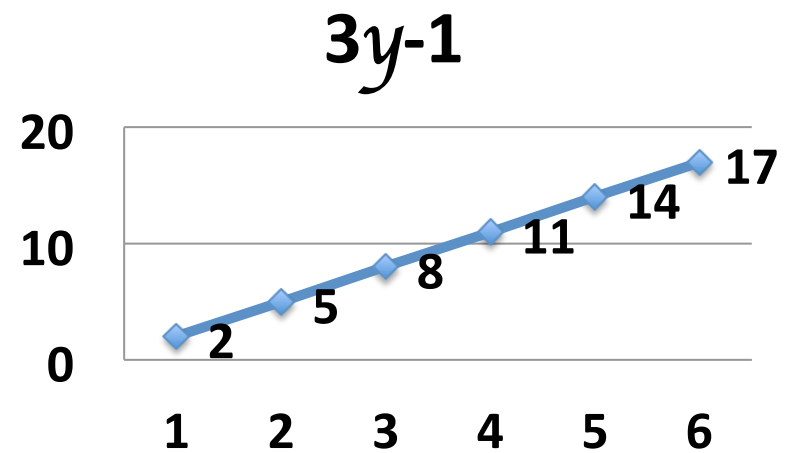
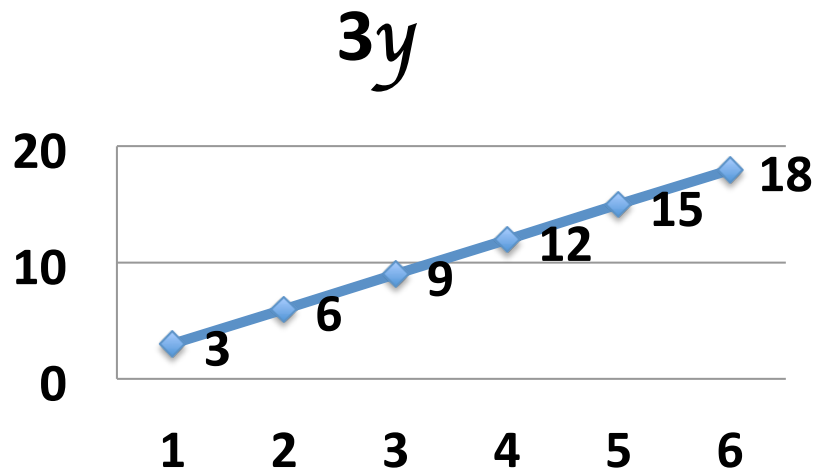
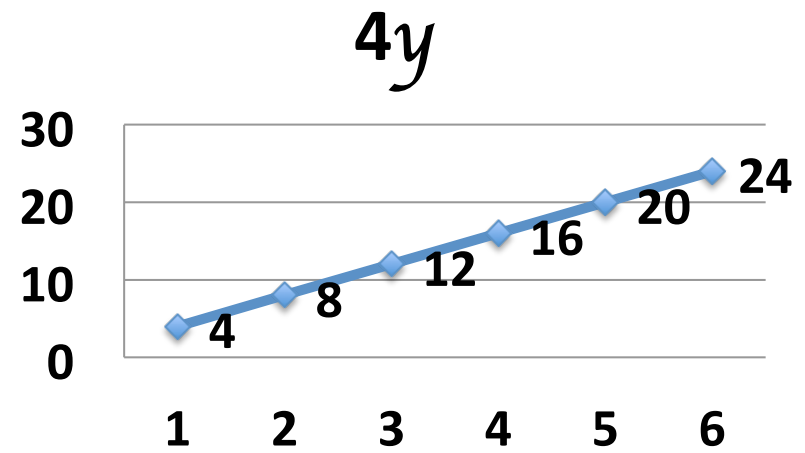
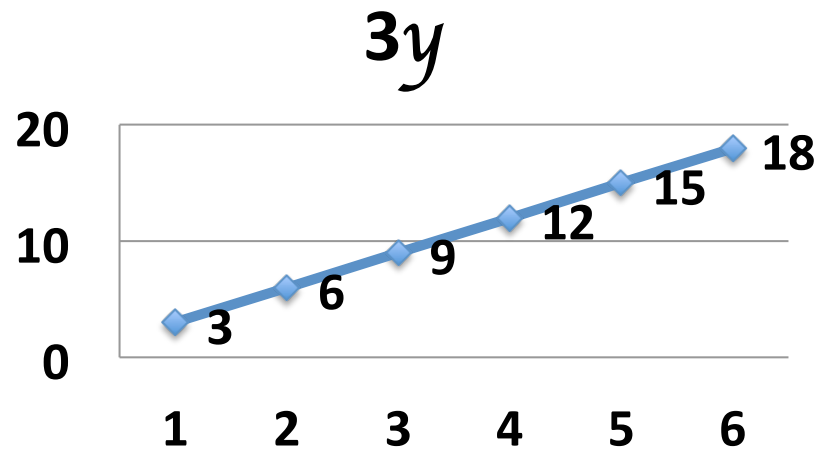


$$3(y-1)+5$$



LA FAMILLE *y*

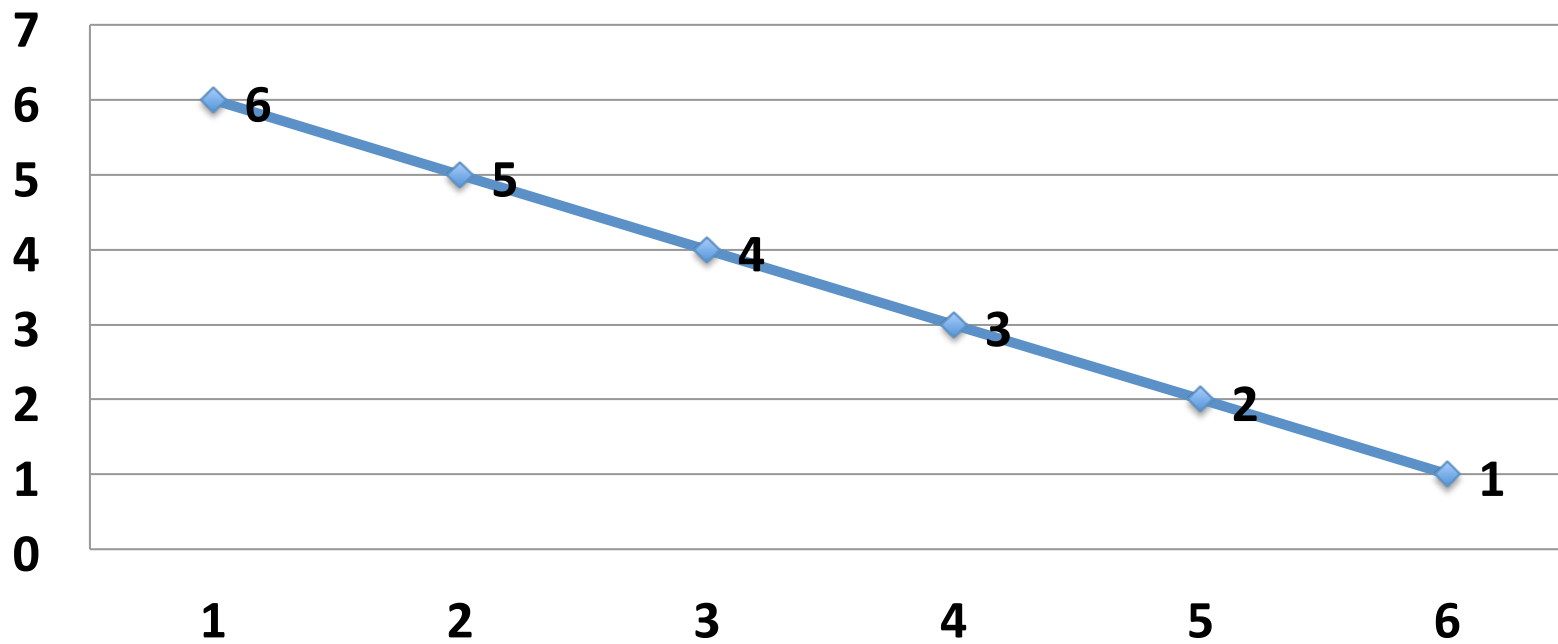
JUMELLES: VRAIES OU FAUSSES?



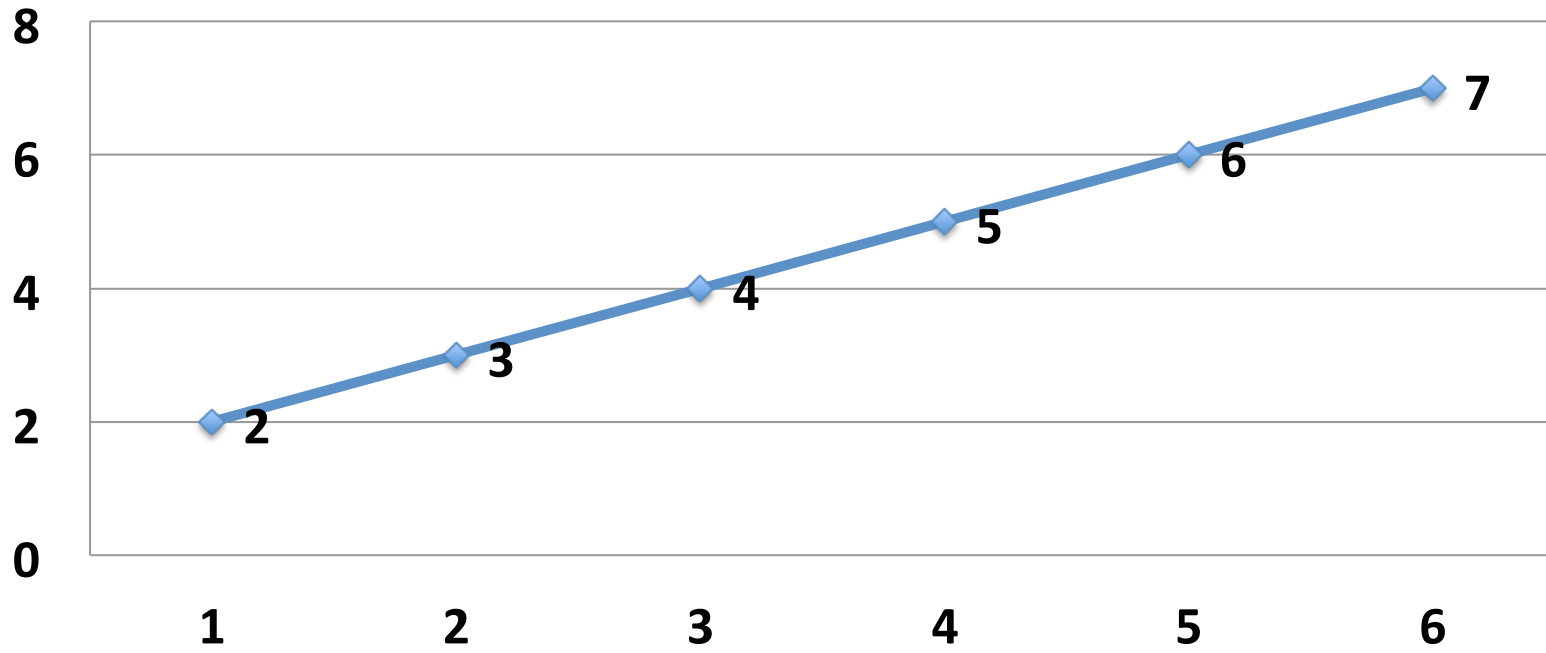
VRAIES OU FAUSSES JUMELLES ?

LA FAMILLE *z*

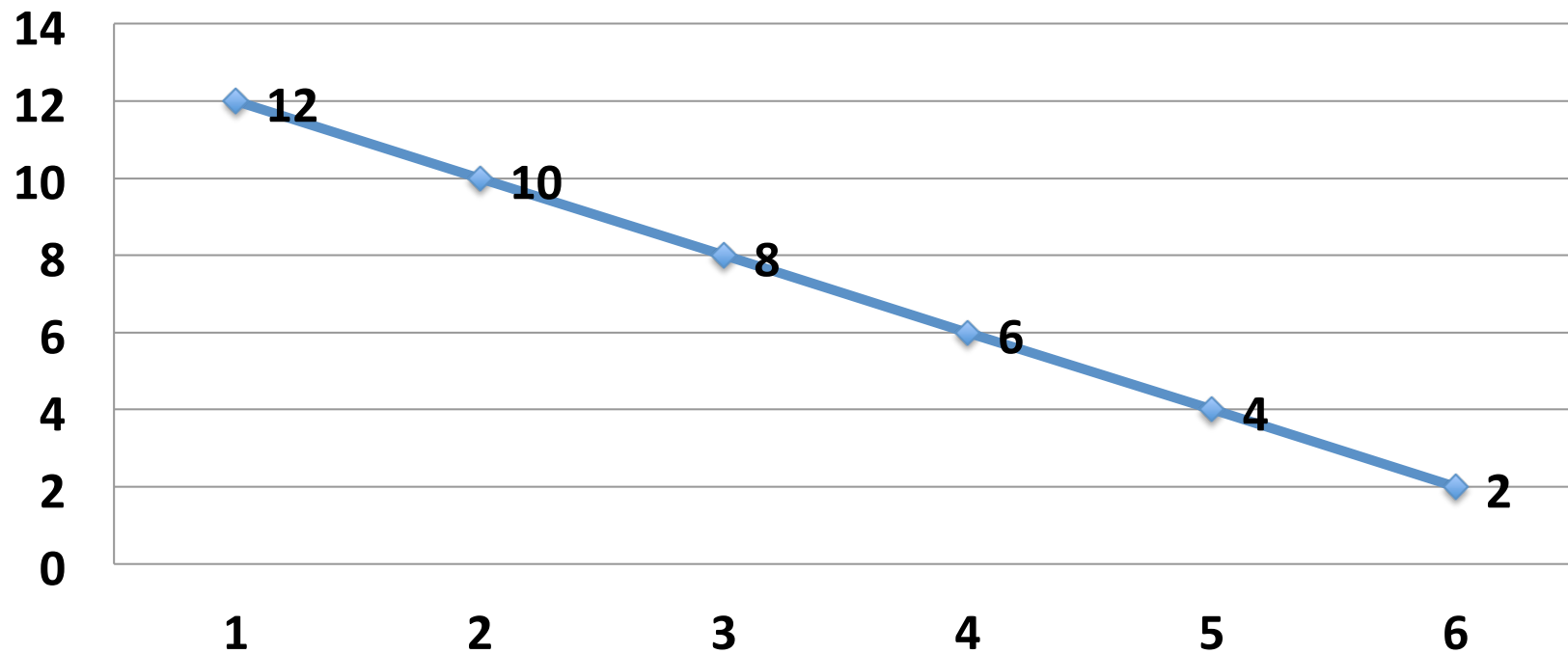
7-z



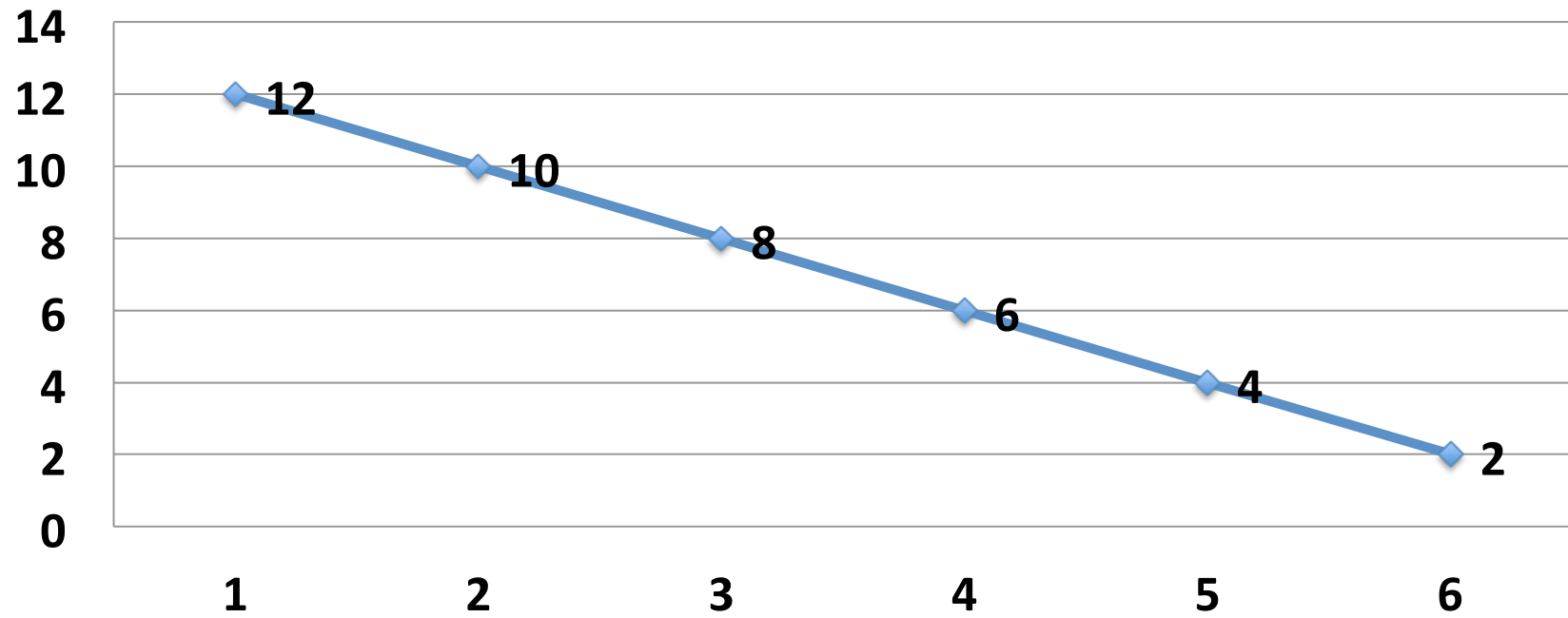
$z+1$



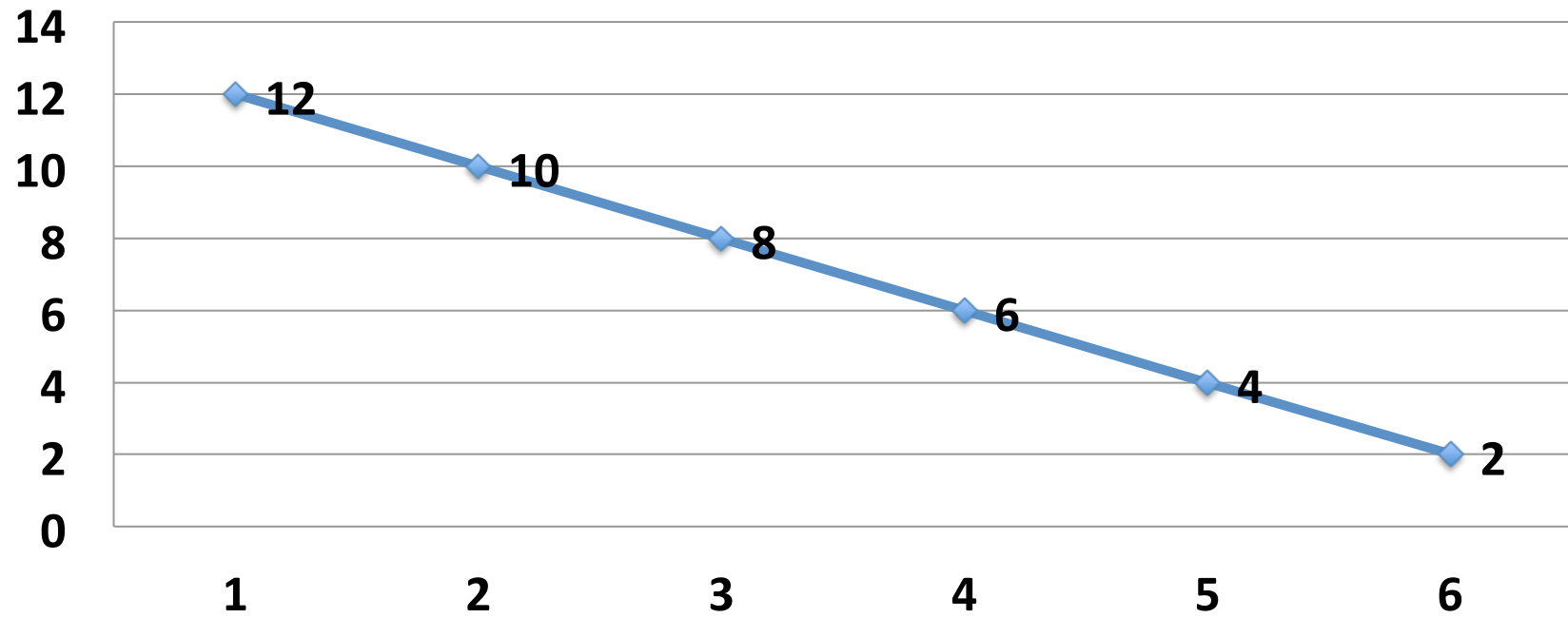
$$2(7-z)$$

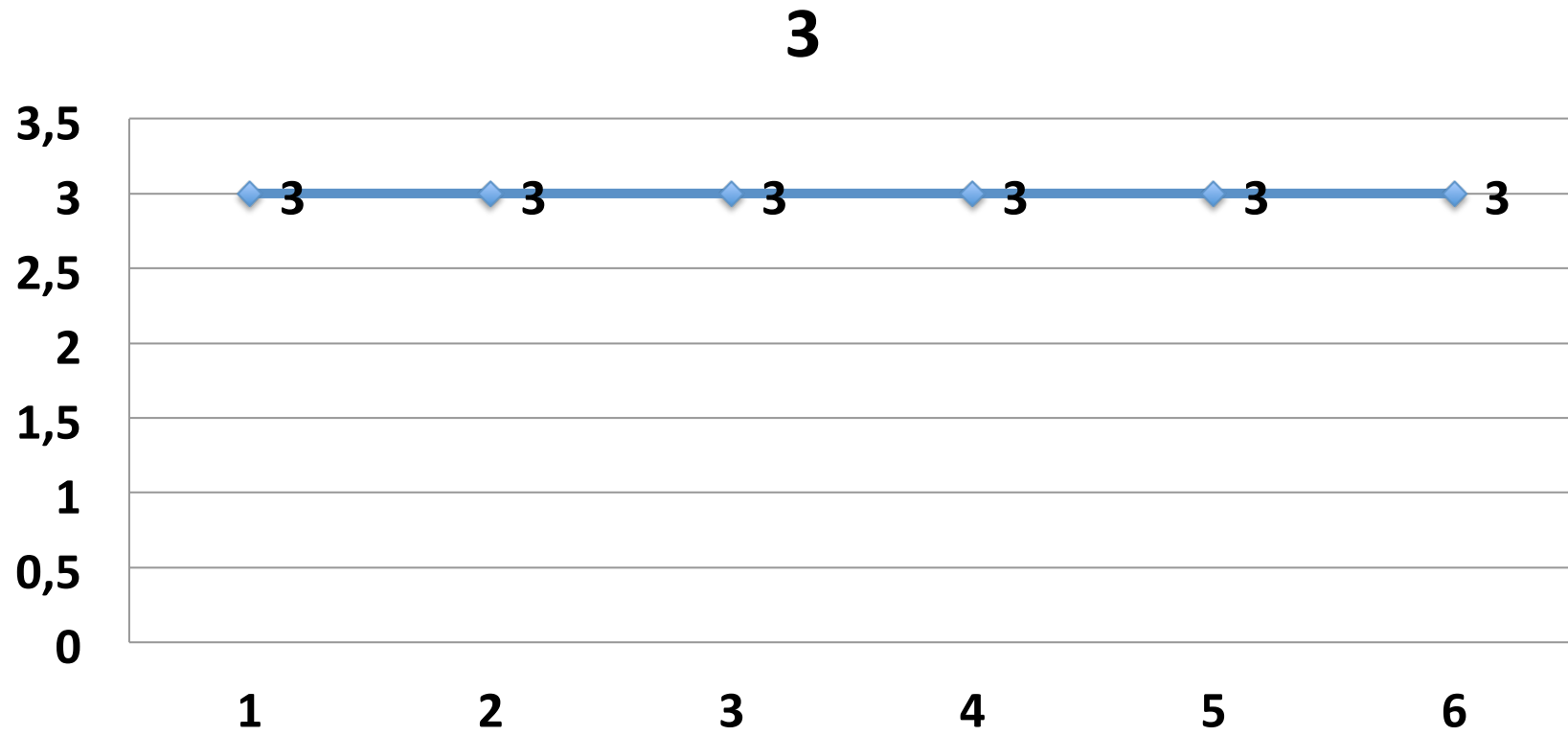


$$14-2z$$

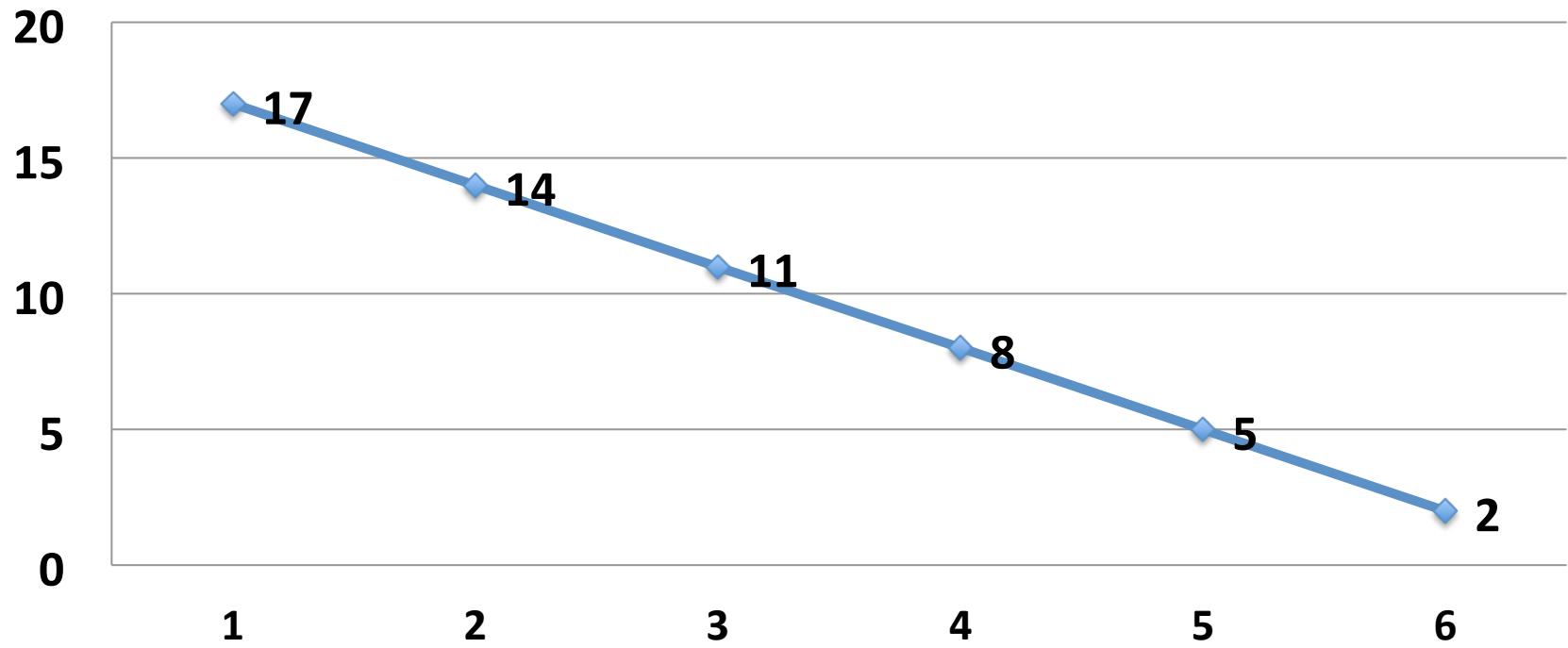


$$14-2z$$

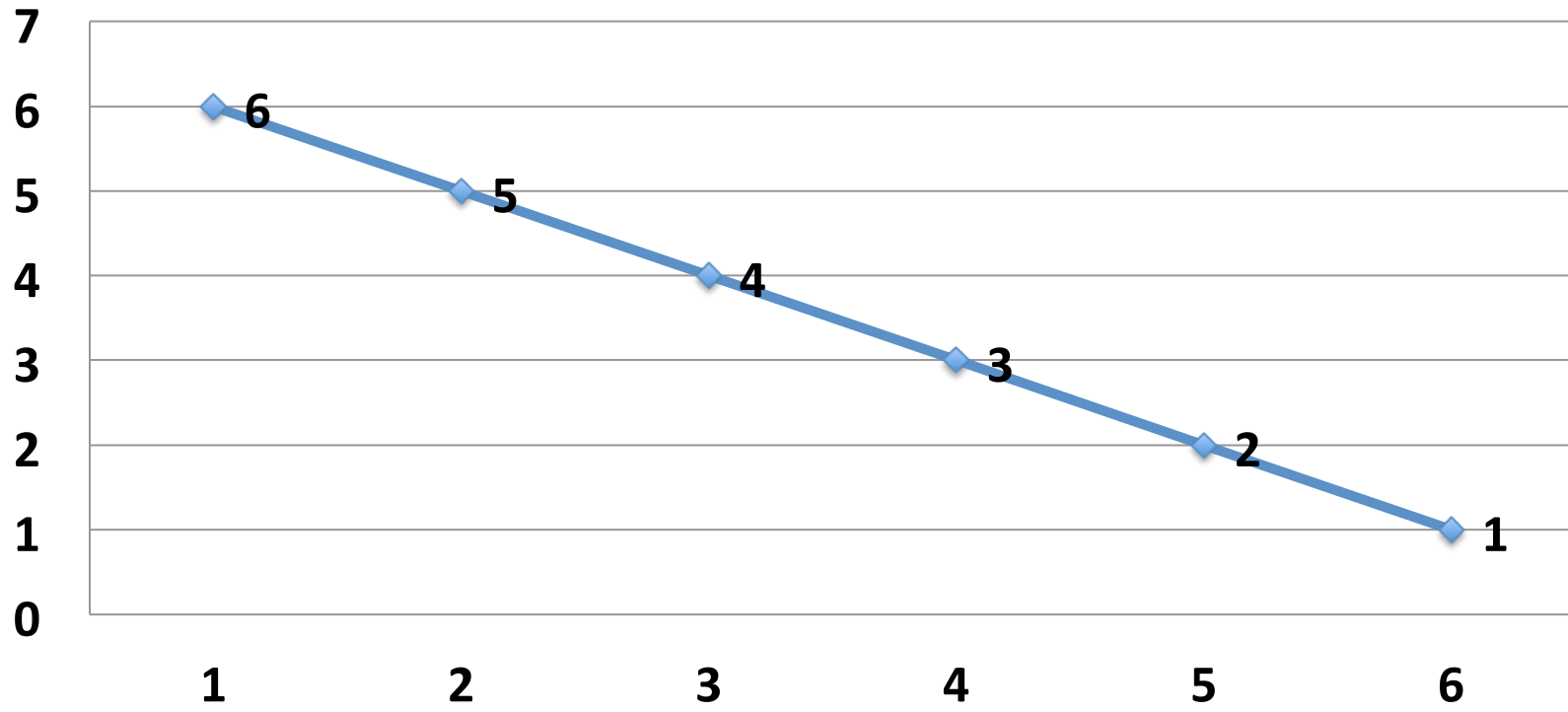




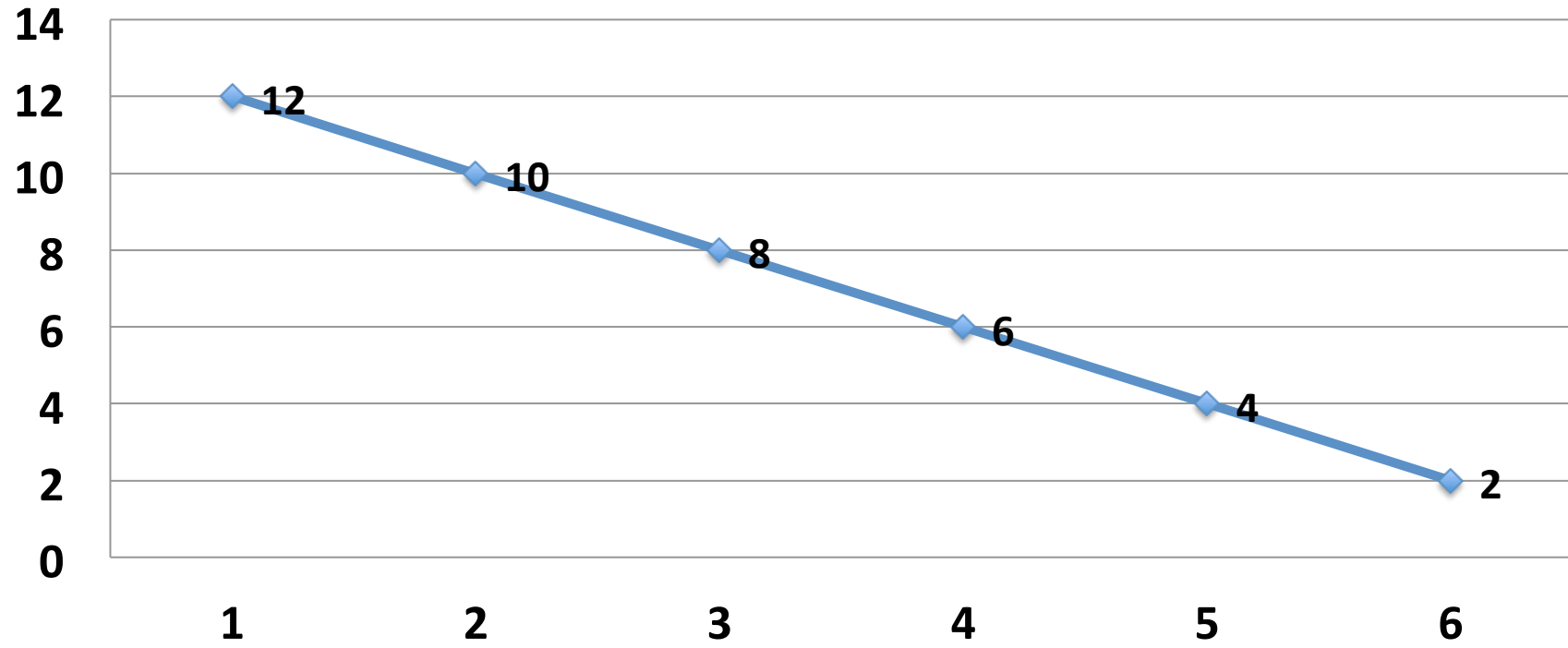
20-3z



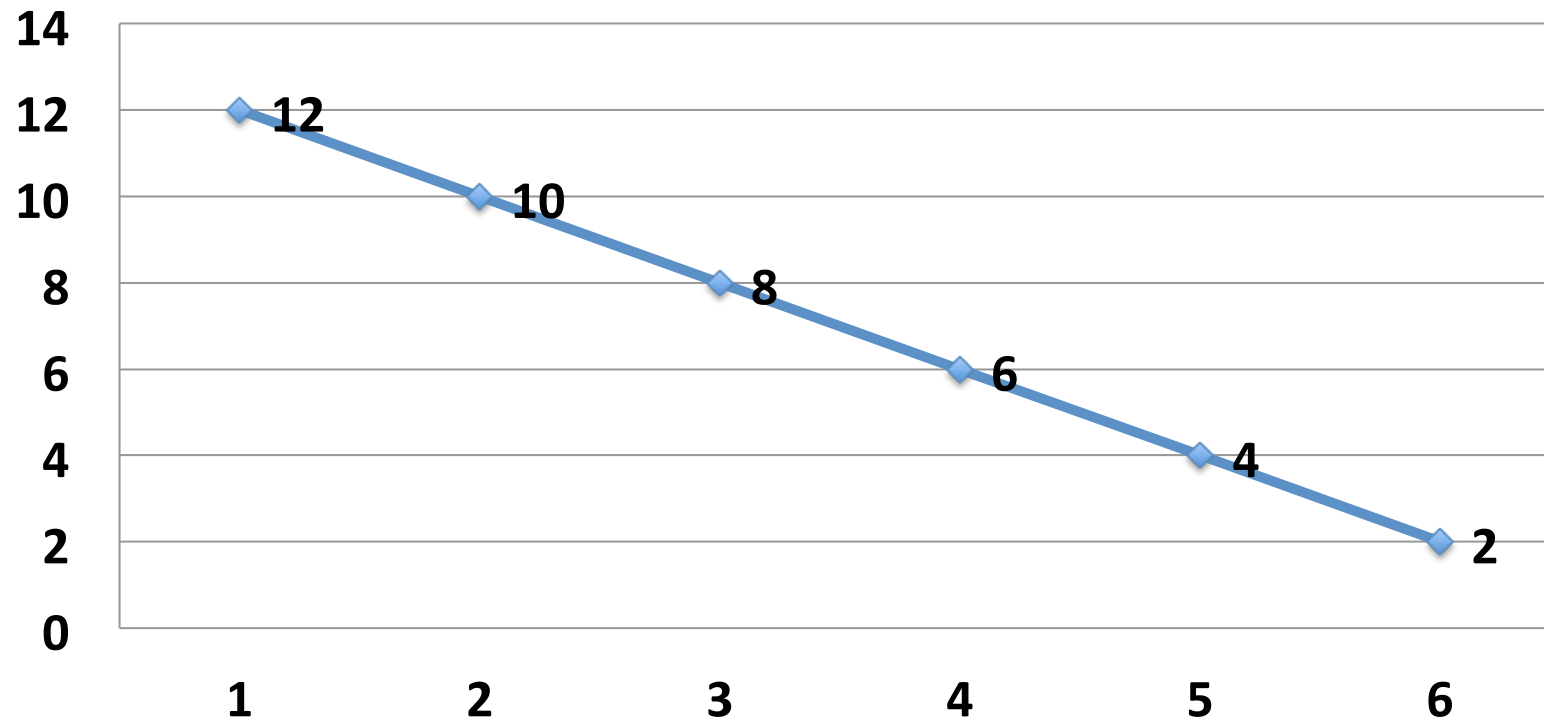
$$z+7-2z$$



$$2z+14-4z$$



$$2(1-z)+12$$

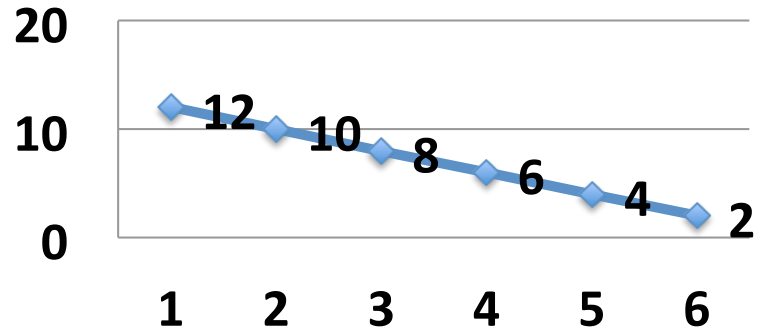


LA FAMILLE z

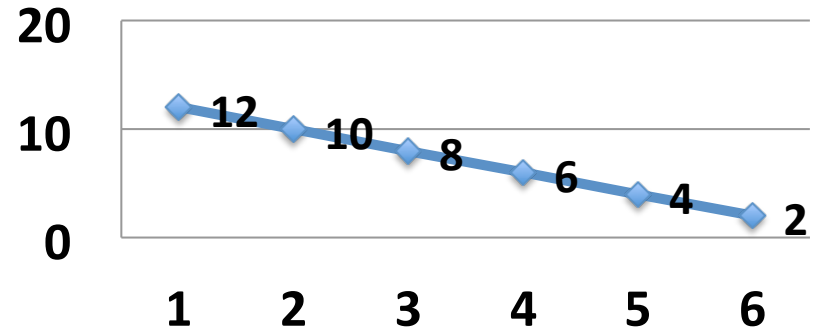
JUMELLES: VRAIES OU FAUSSES?

VRAIES OU FAUSSES JUMELLES ?

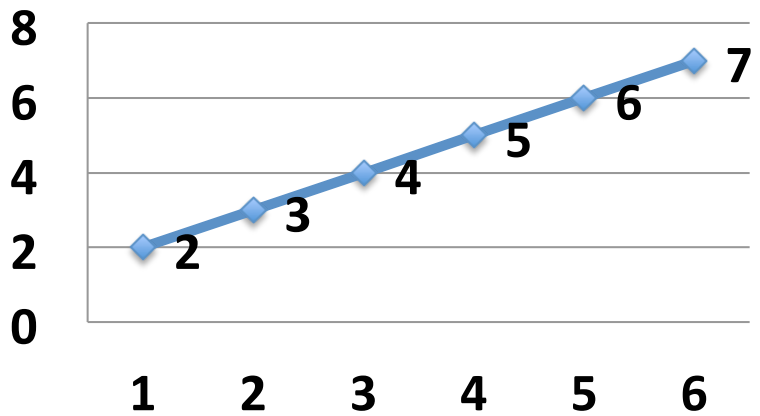
$$2(7-z)$$



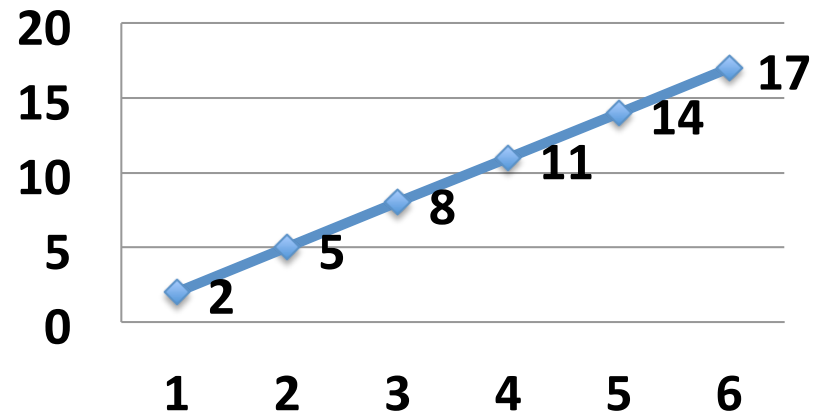
$$2z+14-4z$$



$$z+1$$



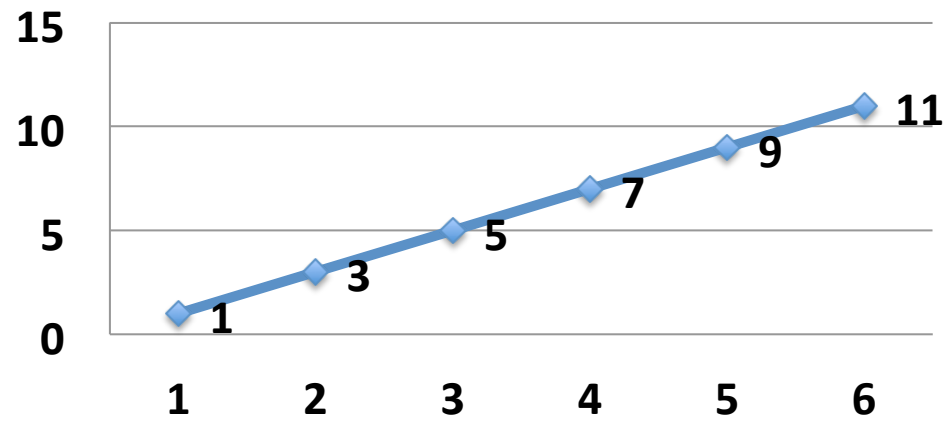
$$3(z+1)-4$$



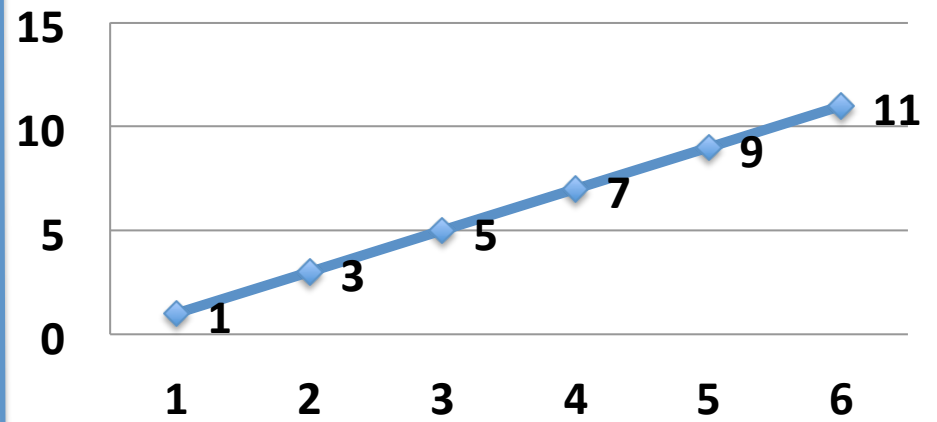
LA FAMILLE *t*

Vraies JUMELLES ou Faussees JUMELLES ?

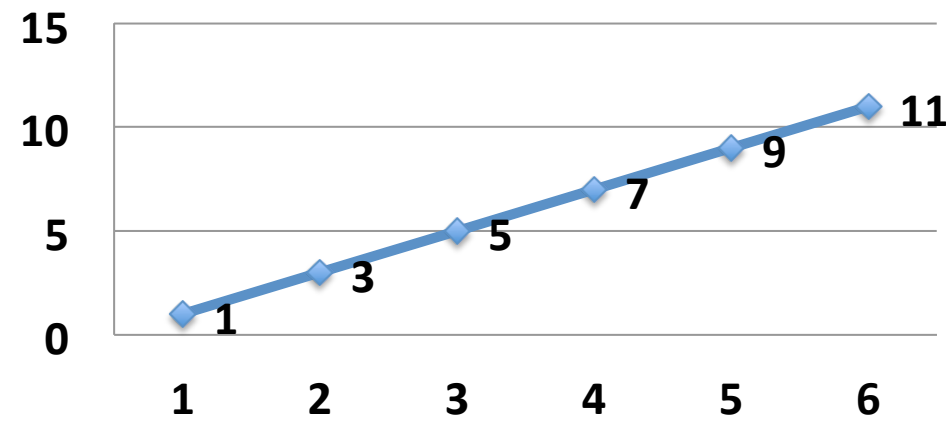
$$2t-1$$



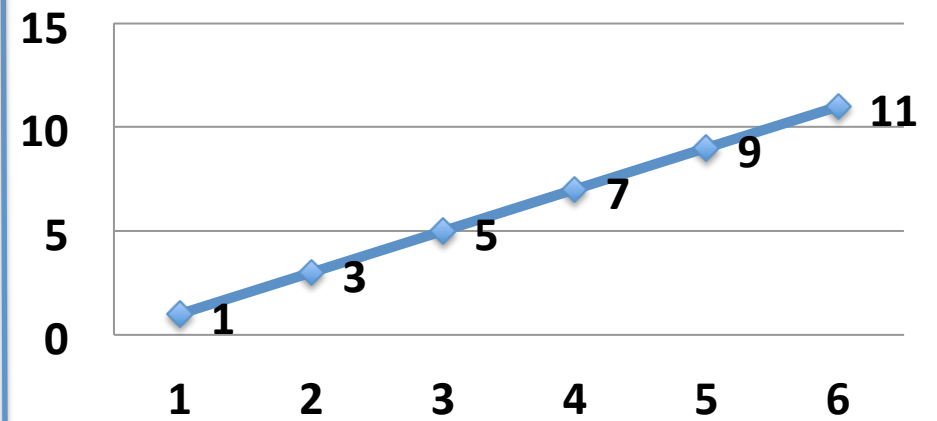
$$2(t-1)+1$$



$$2(t+1)-3$$

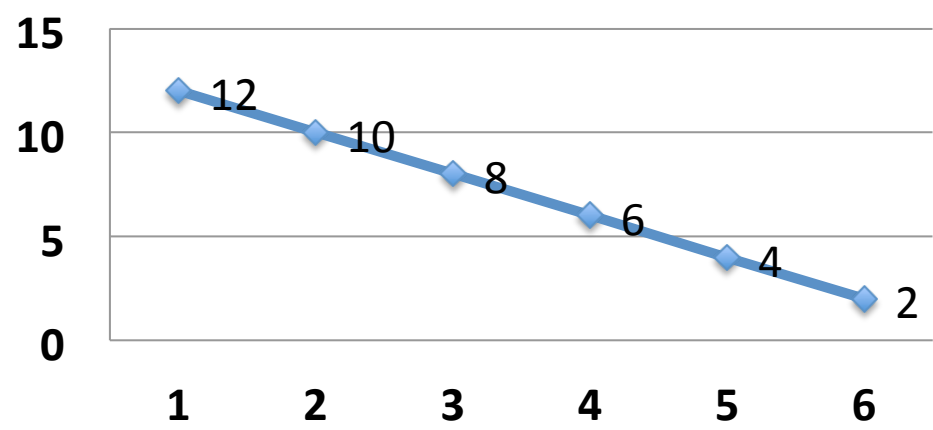


$$3t-1-t$$

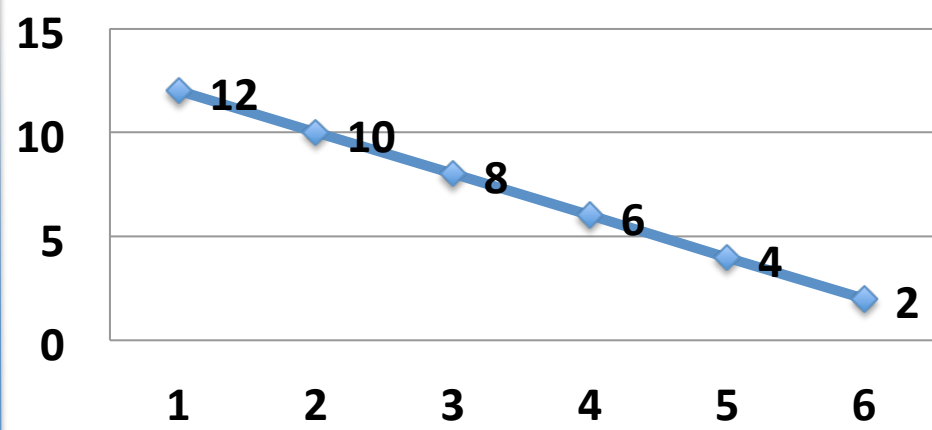


VRAIES OU FAUSSES JUMELLES ?

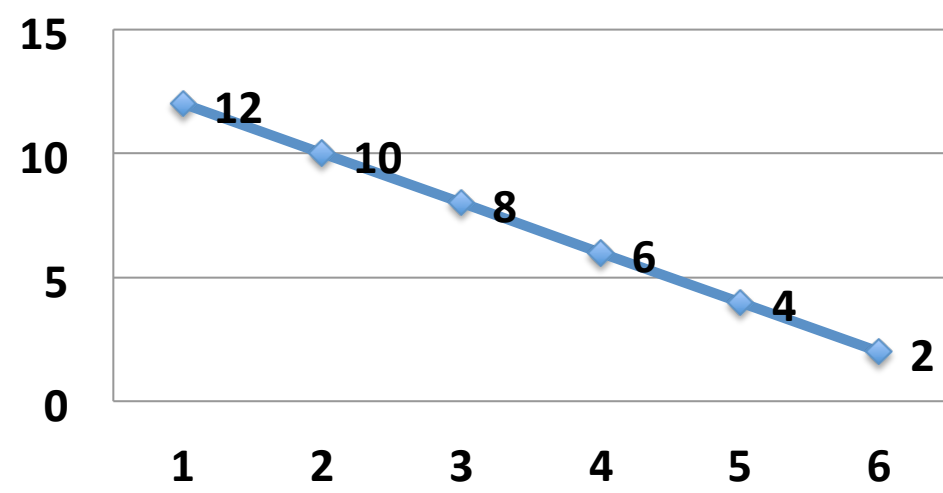
$$14-2t$$



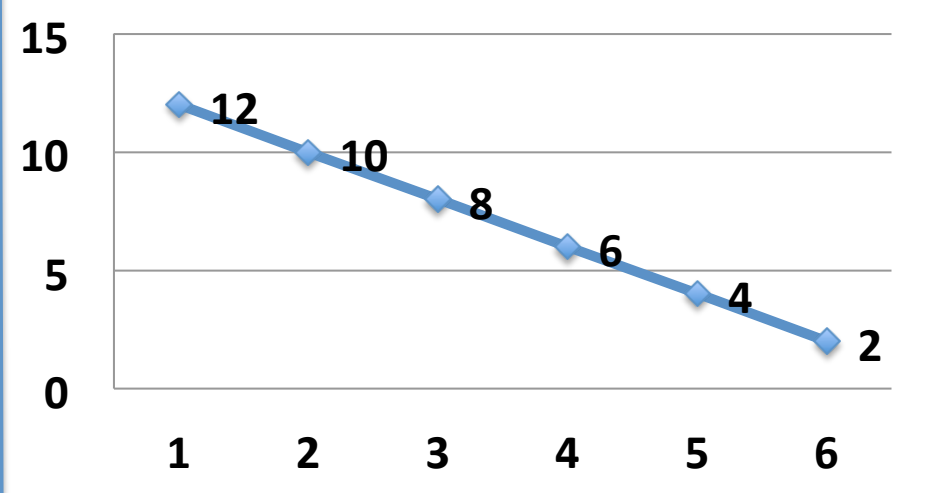
$$-t+14-t$$



$$10-2t+4$$

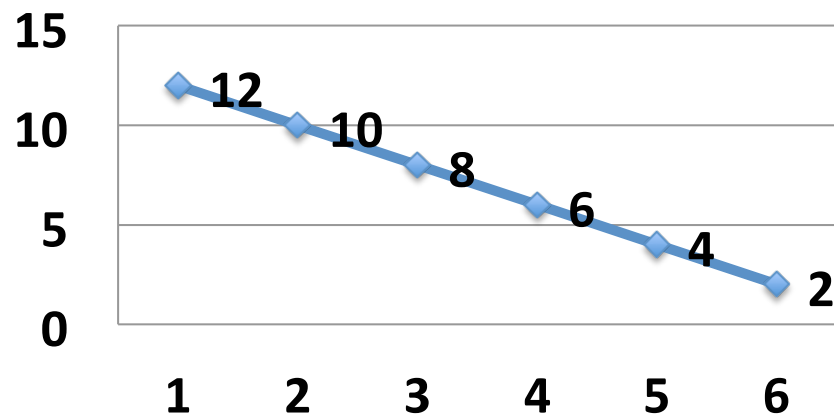


$$13-2t+1$$

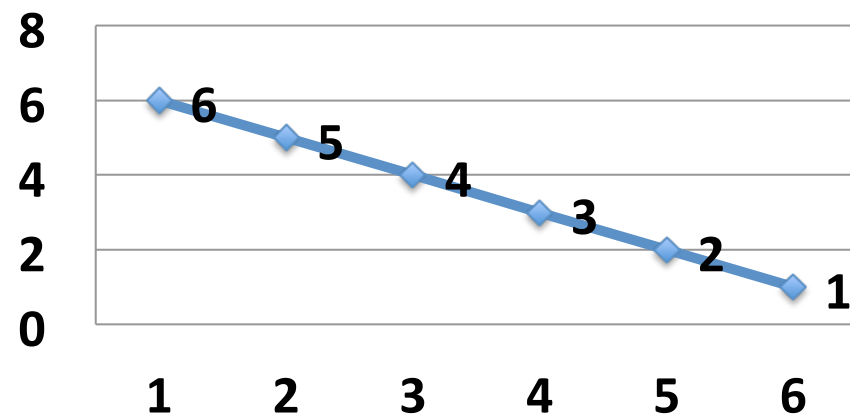


VRAIES OU FAUSSES JUMELLES ?

$14-2t$



$7-t$

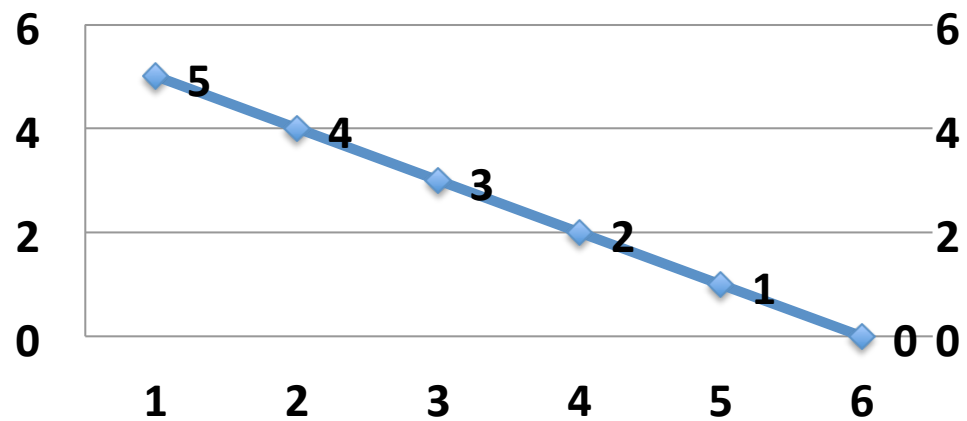


VRAIES OU FAUSSES JUMELLES ?

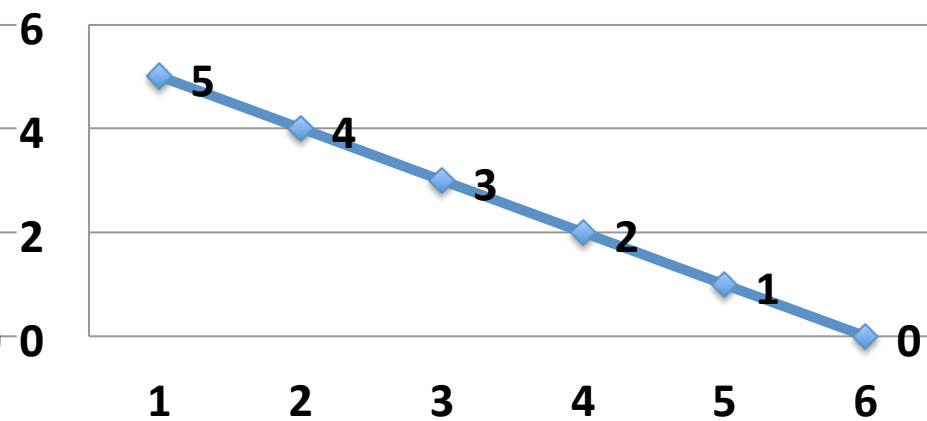
LA FAMILLE *u*

Vraies JUMELLES ou Faussees JUMELLES ?

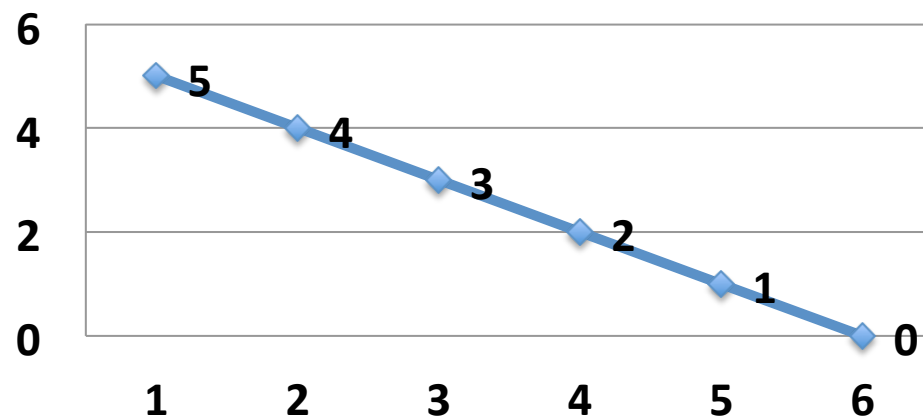
$$2-u+4$$



$$6-u$$

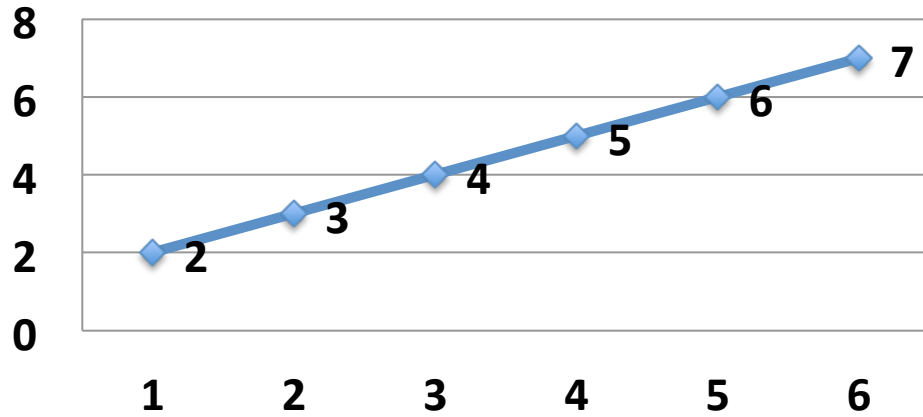


$$2(3-u)+u$$

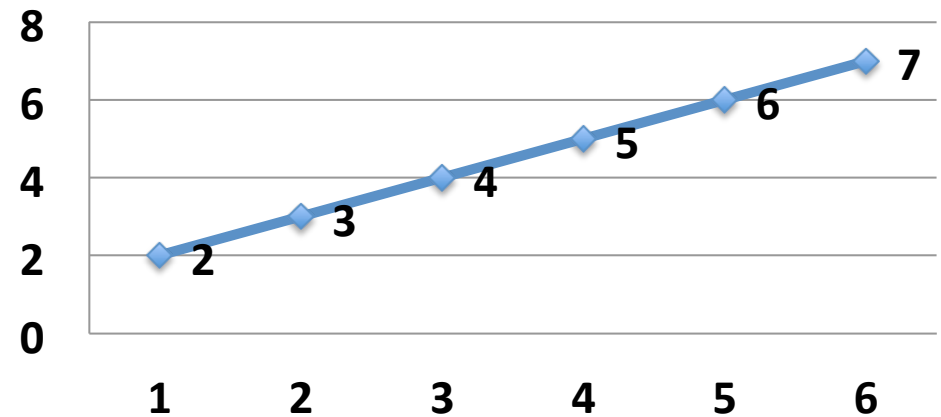


VRAIES OU FAUSSES JUMELLES ?

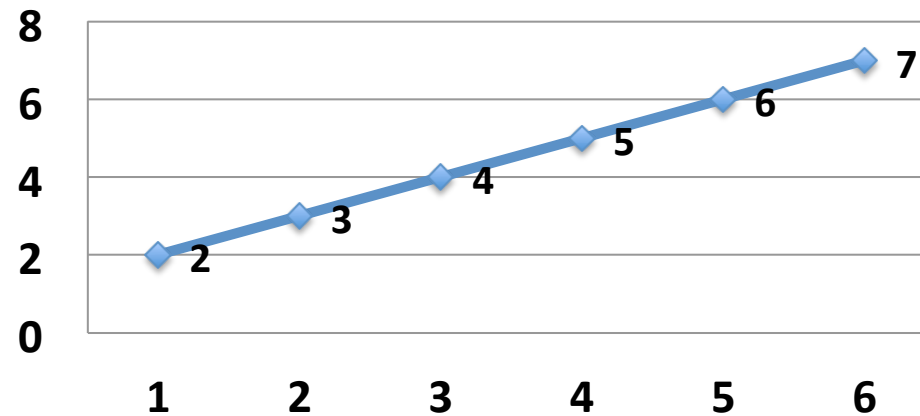
$$3+u-2$$



$$1+u$$

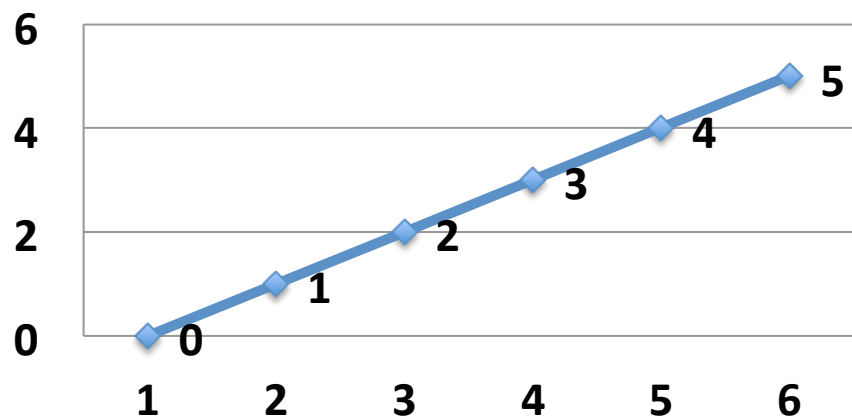


$$2u+1-u$$

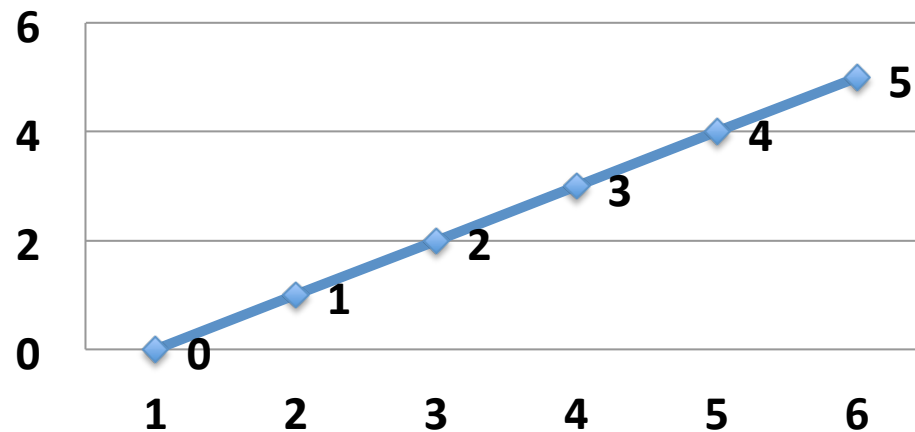


VRAIES OU FAUSSES JUMELLES ?

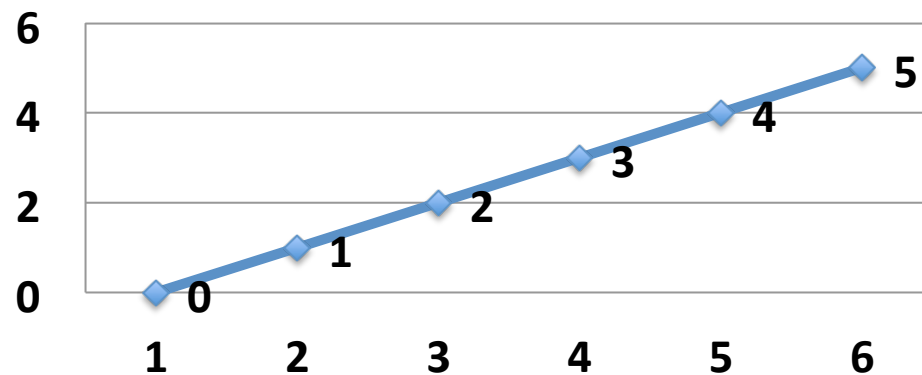
$$2+u-3$$



$$u-1$$

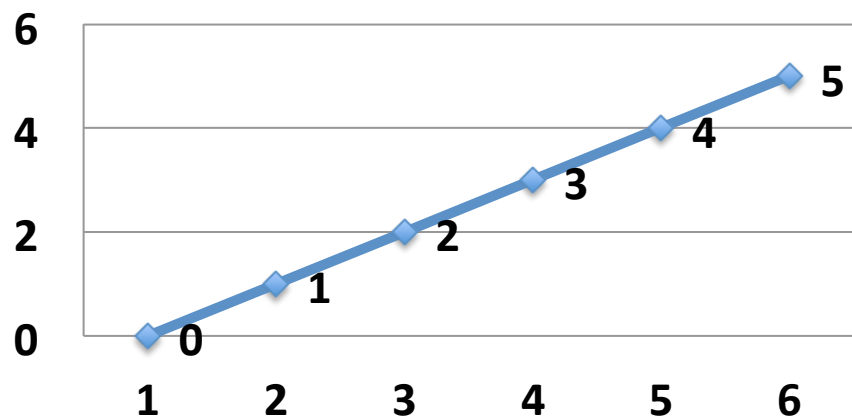


$$2u-1-u$$

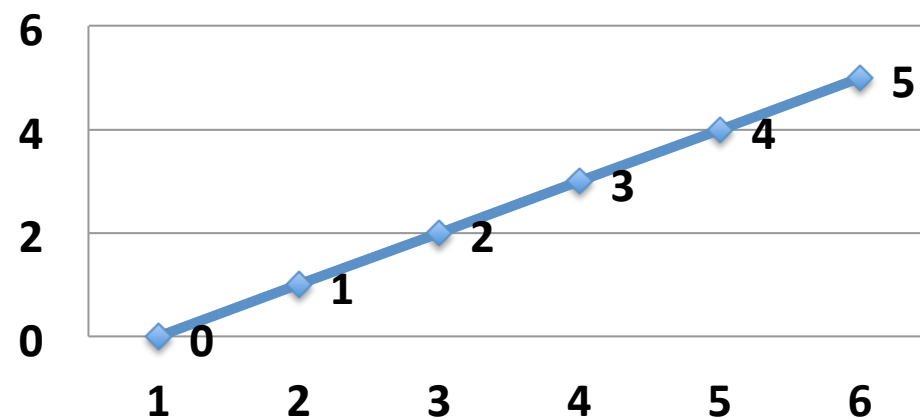


VRAIES OU FAUSSES JUMELLES ?

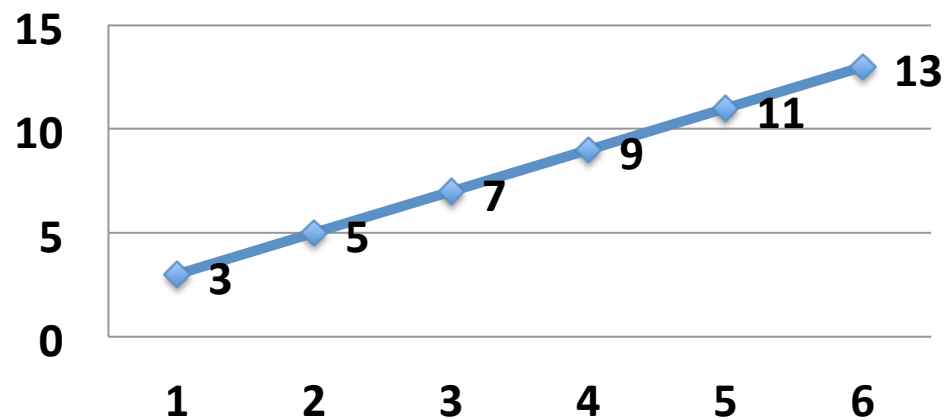
$$2+u-3$$



$$u-1$$



$$2u+1$$

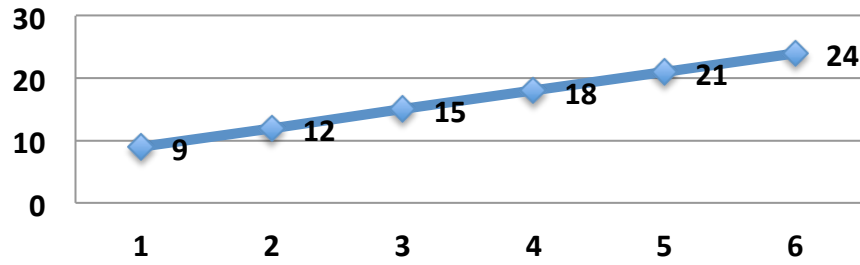


VRAIES OU FAUSSES JUMELLES ?

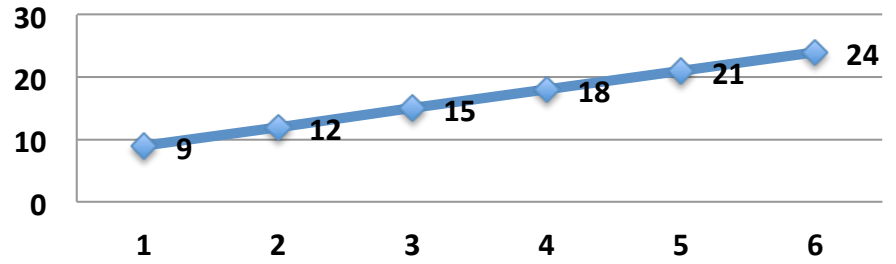
LA FAMILLE *v*

Vraies JUMELLES ou Fausses JUMELLES ?

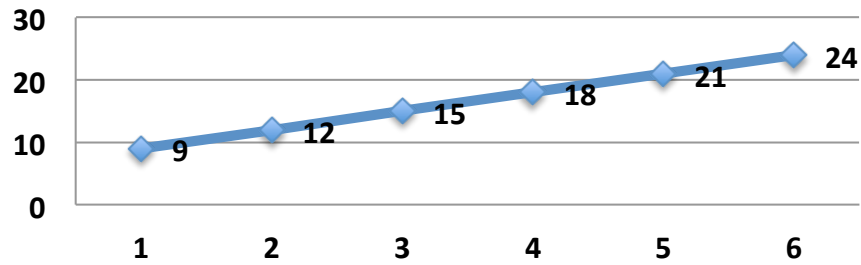
$$3\nu+6$$



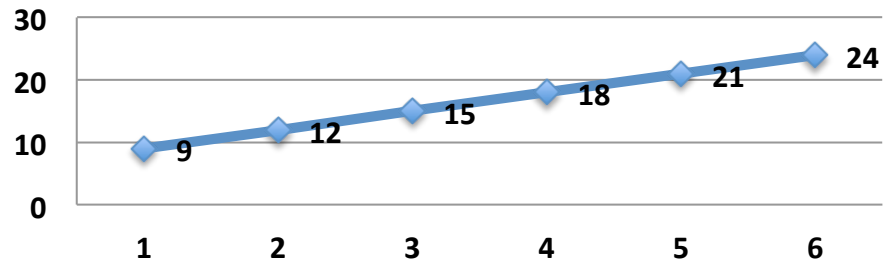
$$3(\nu+2)$$



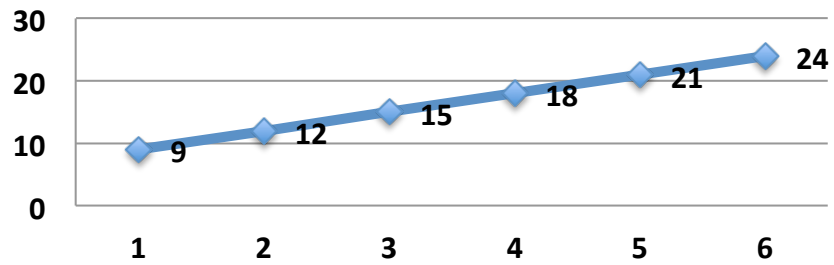
$$\nu+6+2\nu$$



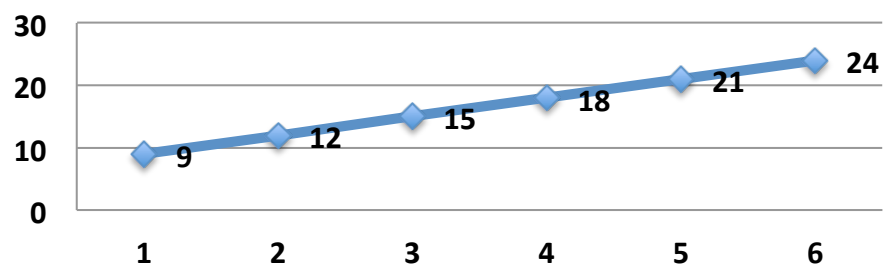
$$\nu+2\nu+6$$



$$2\nu+3+\nu+3$$



$$6+3\nu$$

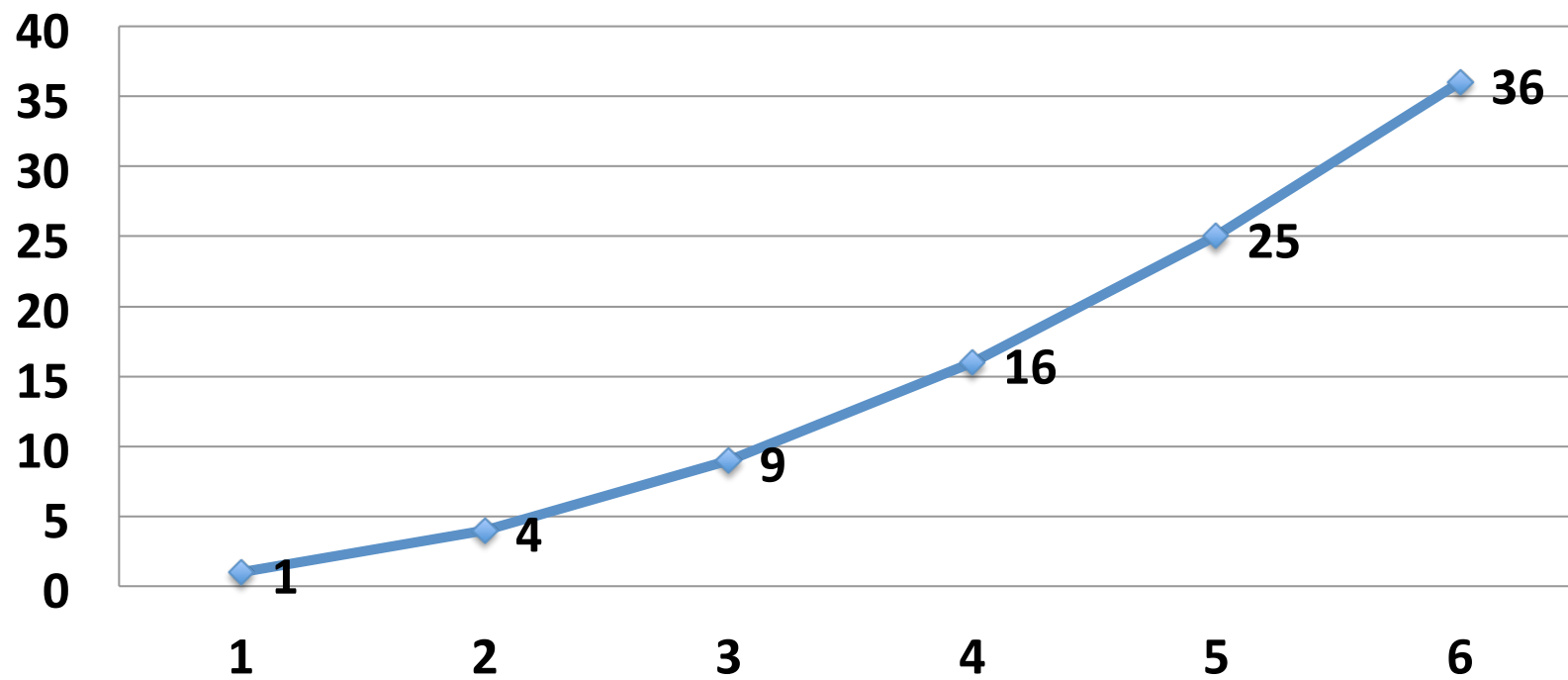


VRAIES OU FAUSSES JUMELLES ?

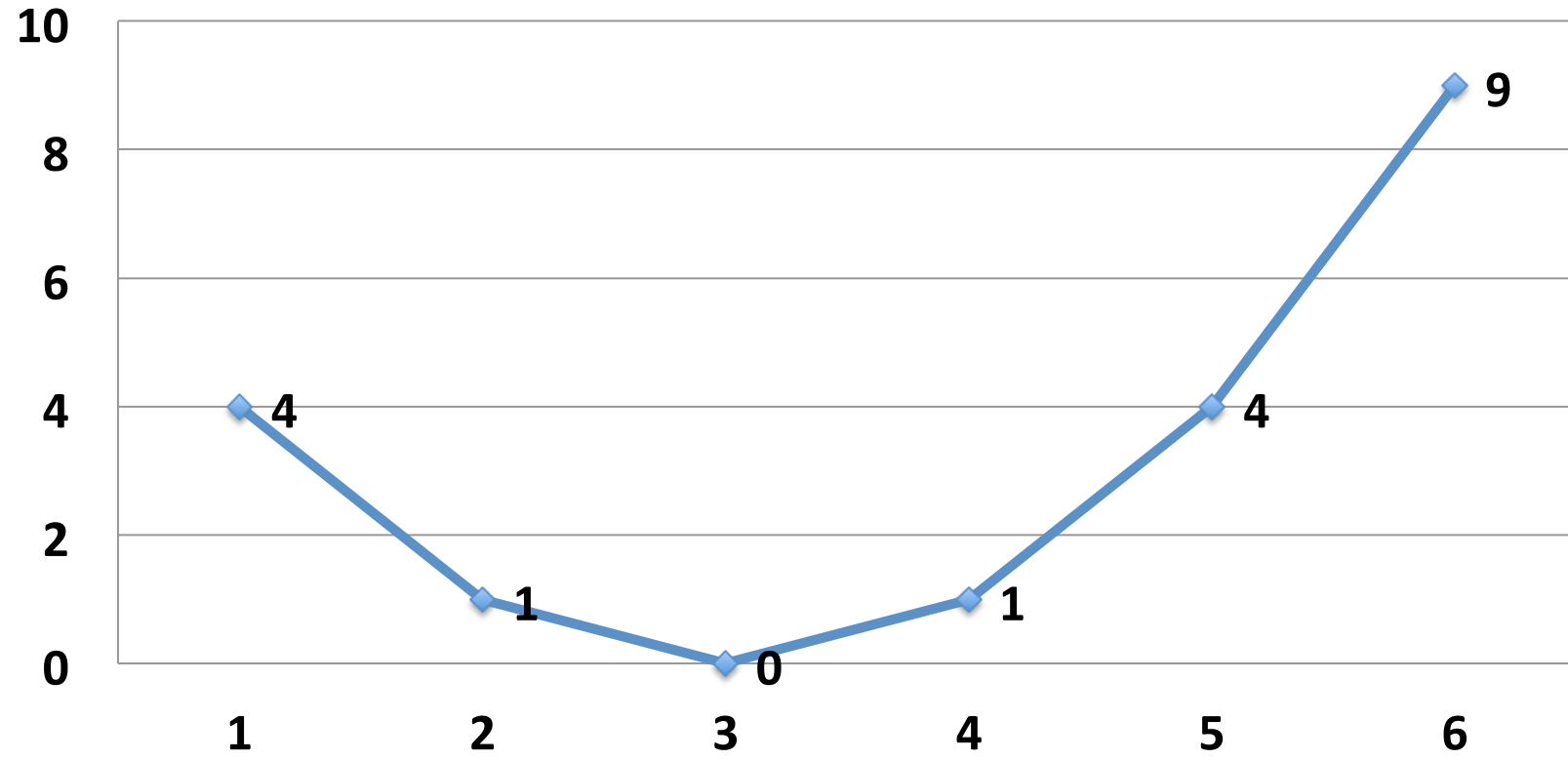
LA FAMILLE *a*

N'EST PAS DROITE

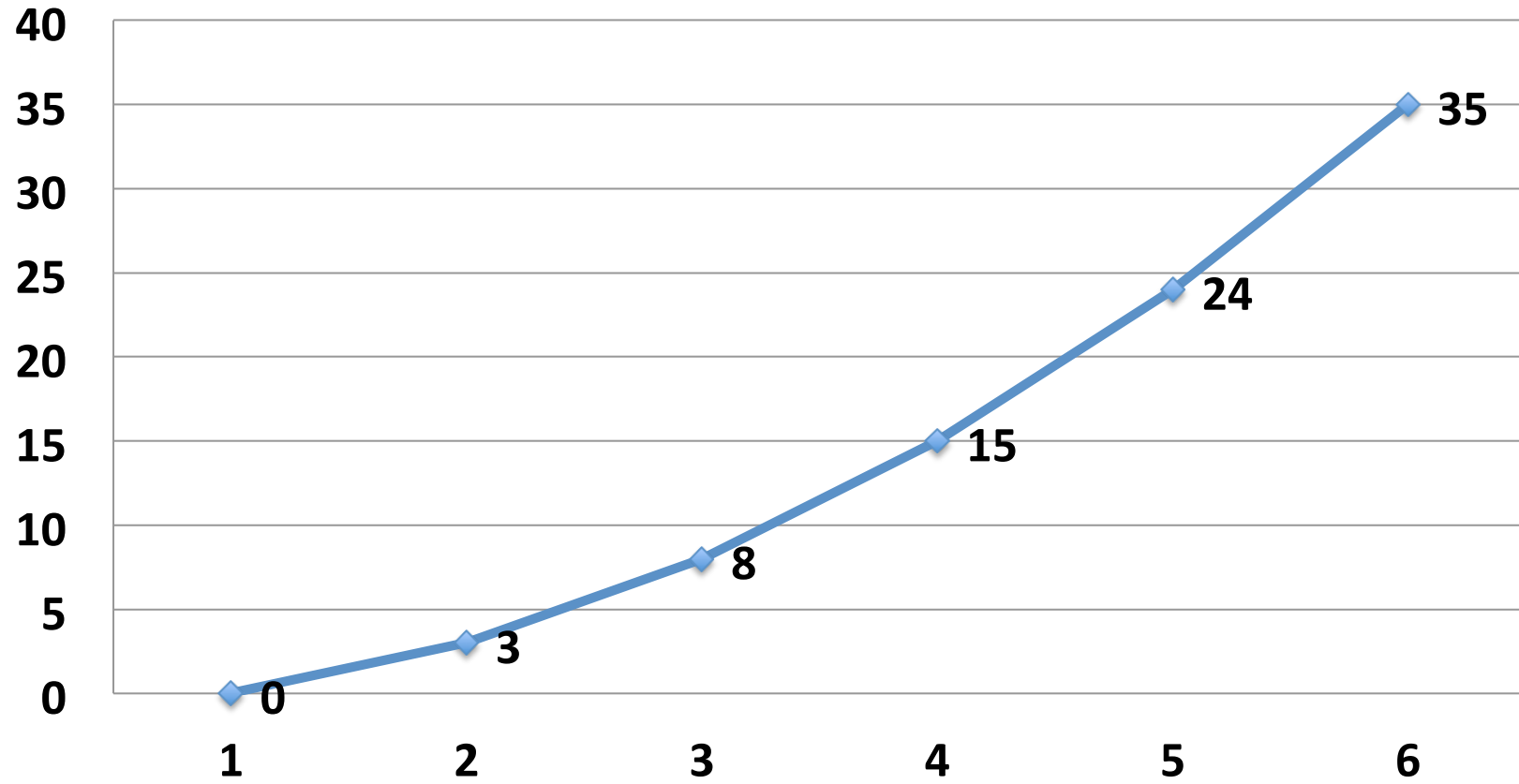
$$a^2$$



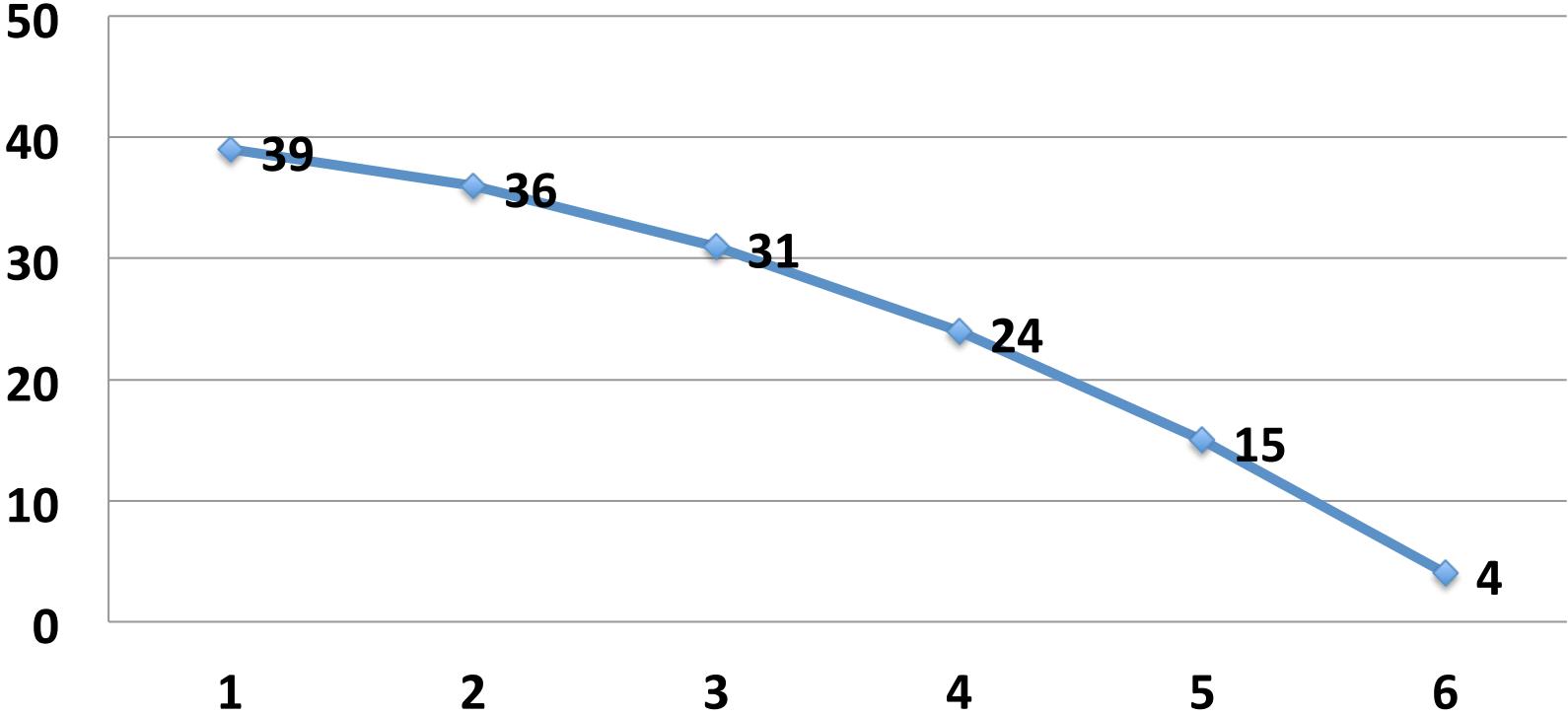
$$(a-3)^2$$



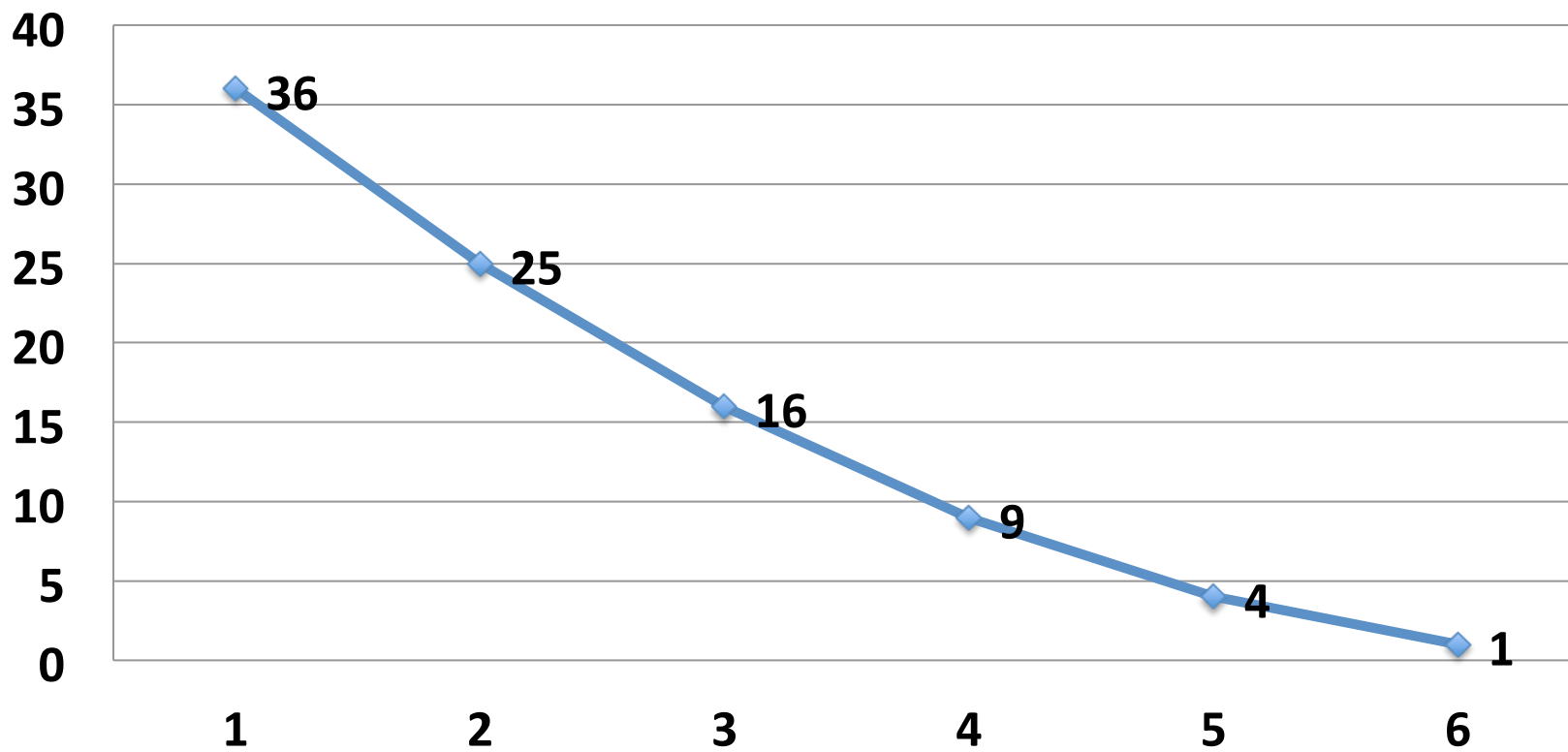
$$a^2-1$$



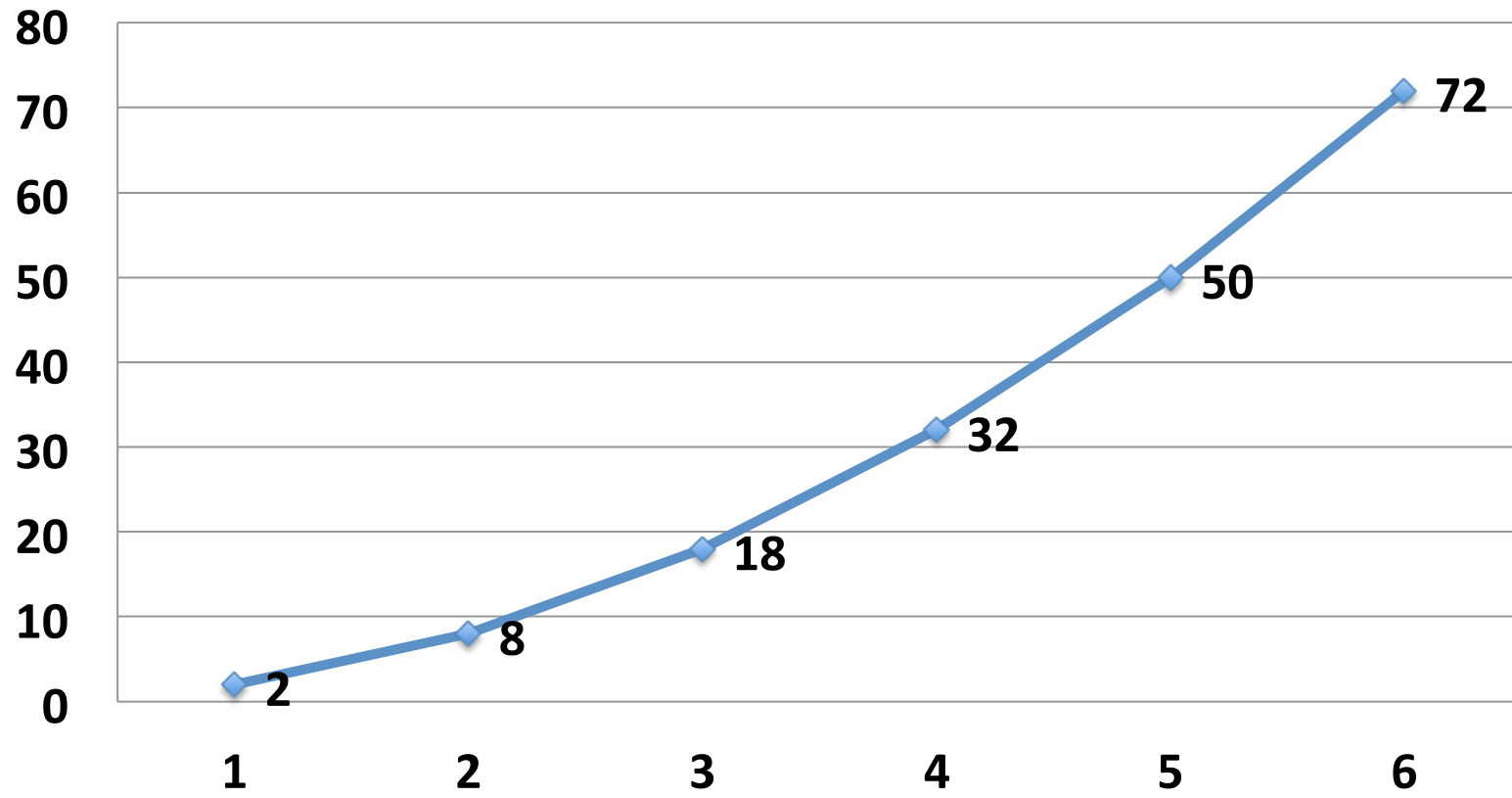
$$40 - a^2$$



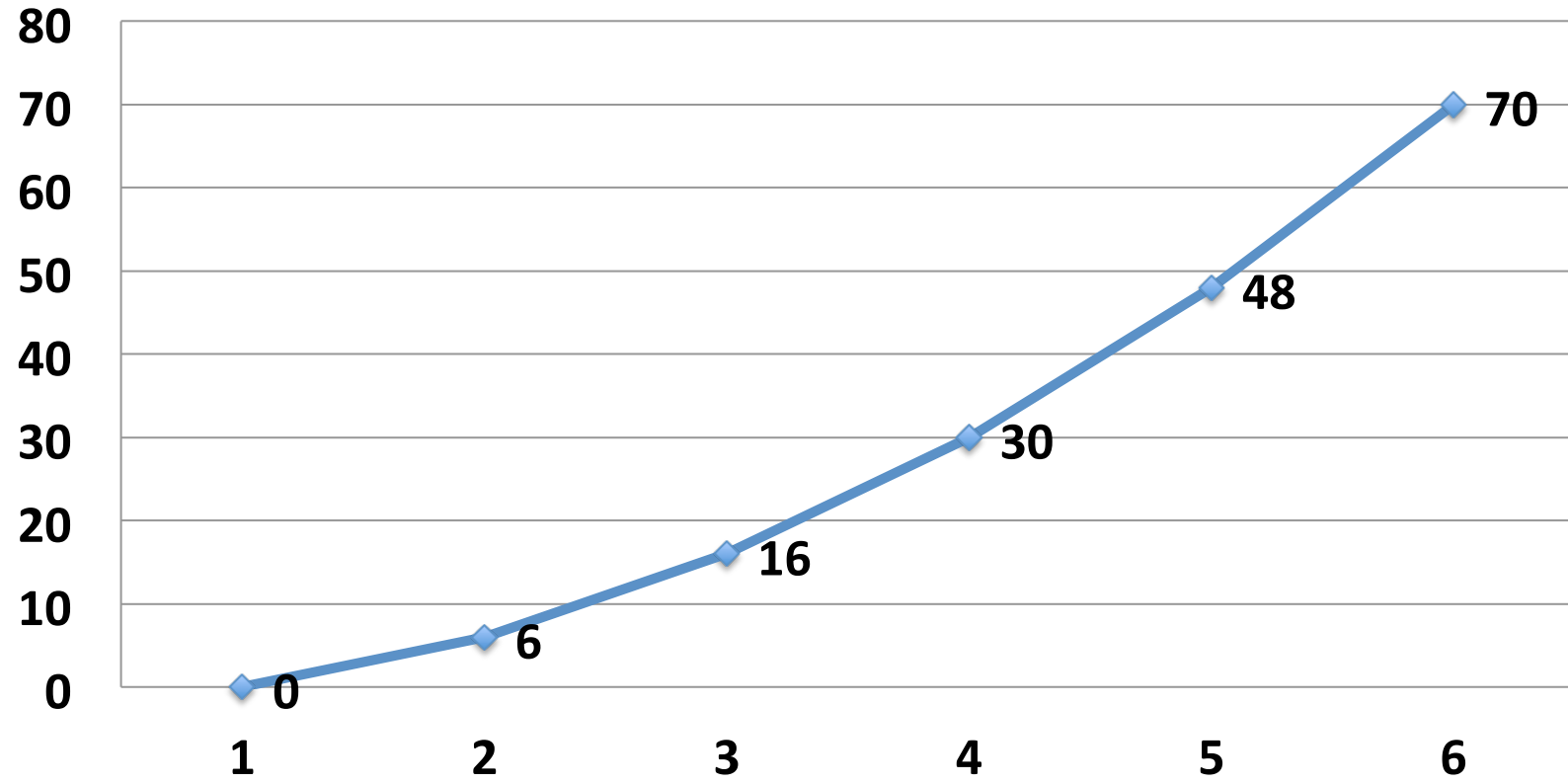
$$(7-a)^2$$



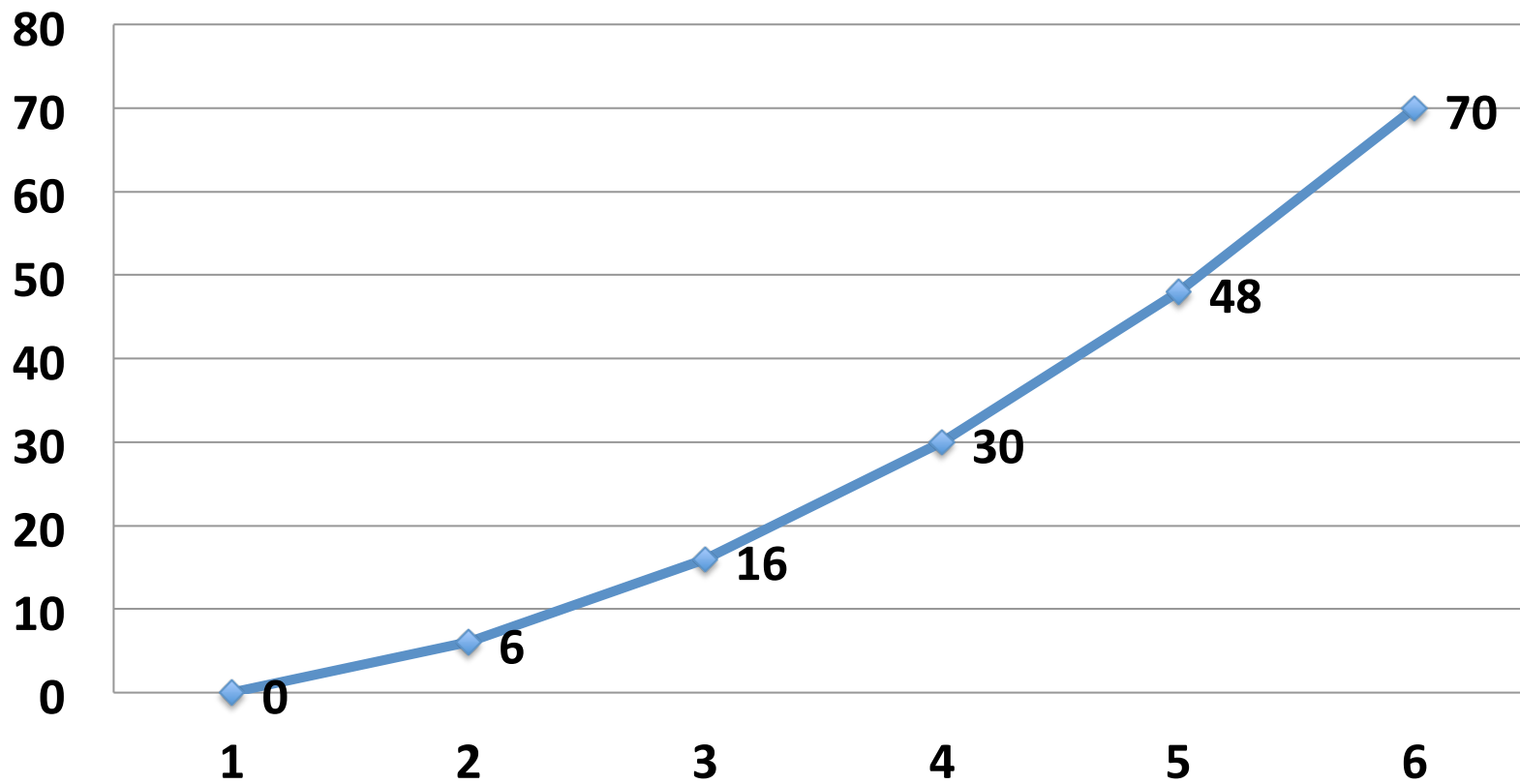
$$2a^2$$



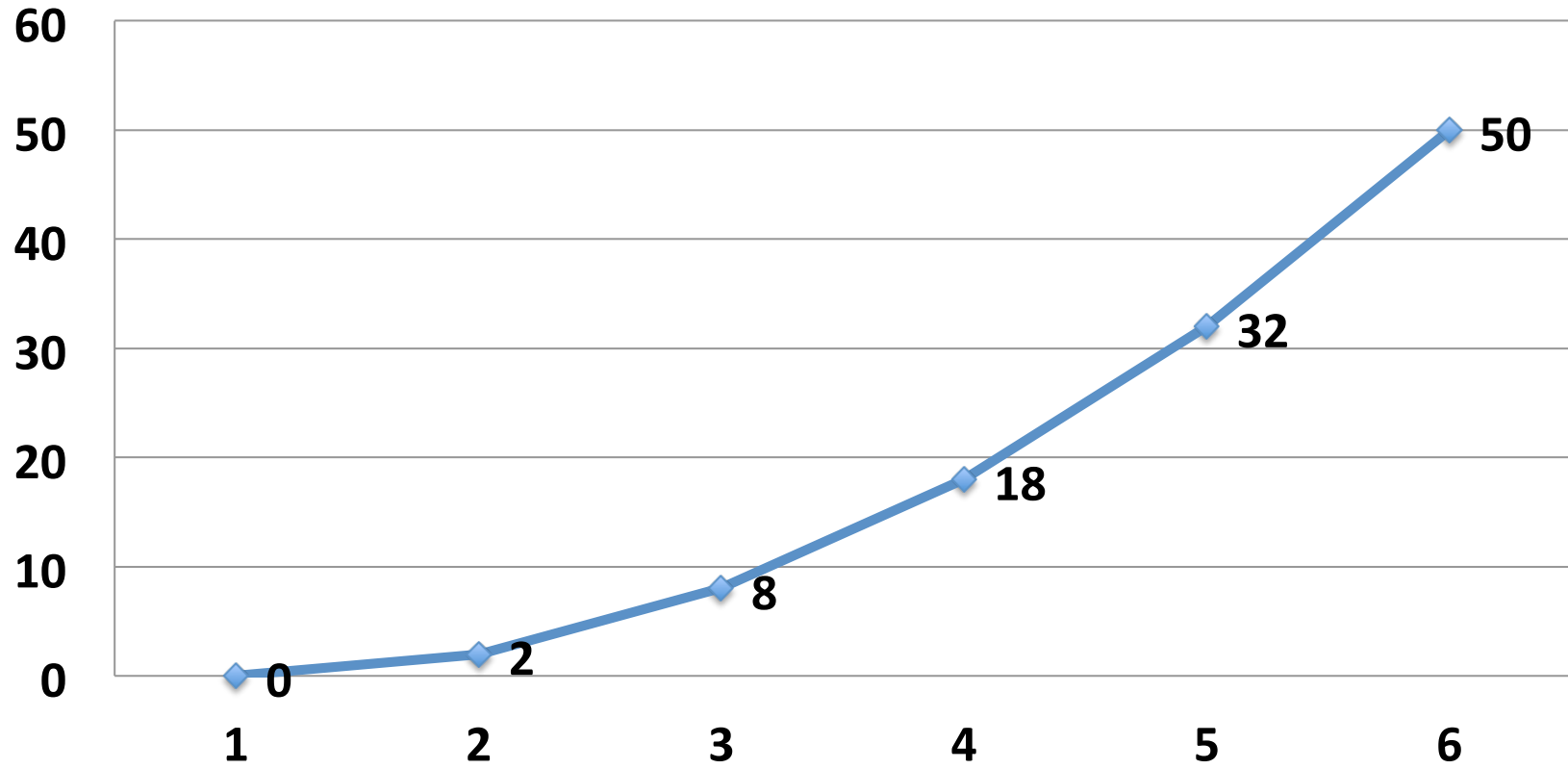
$$2a^2 - 2$$



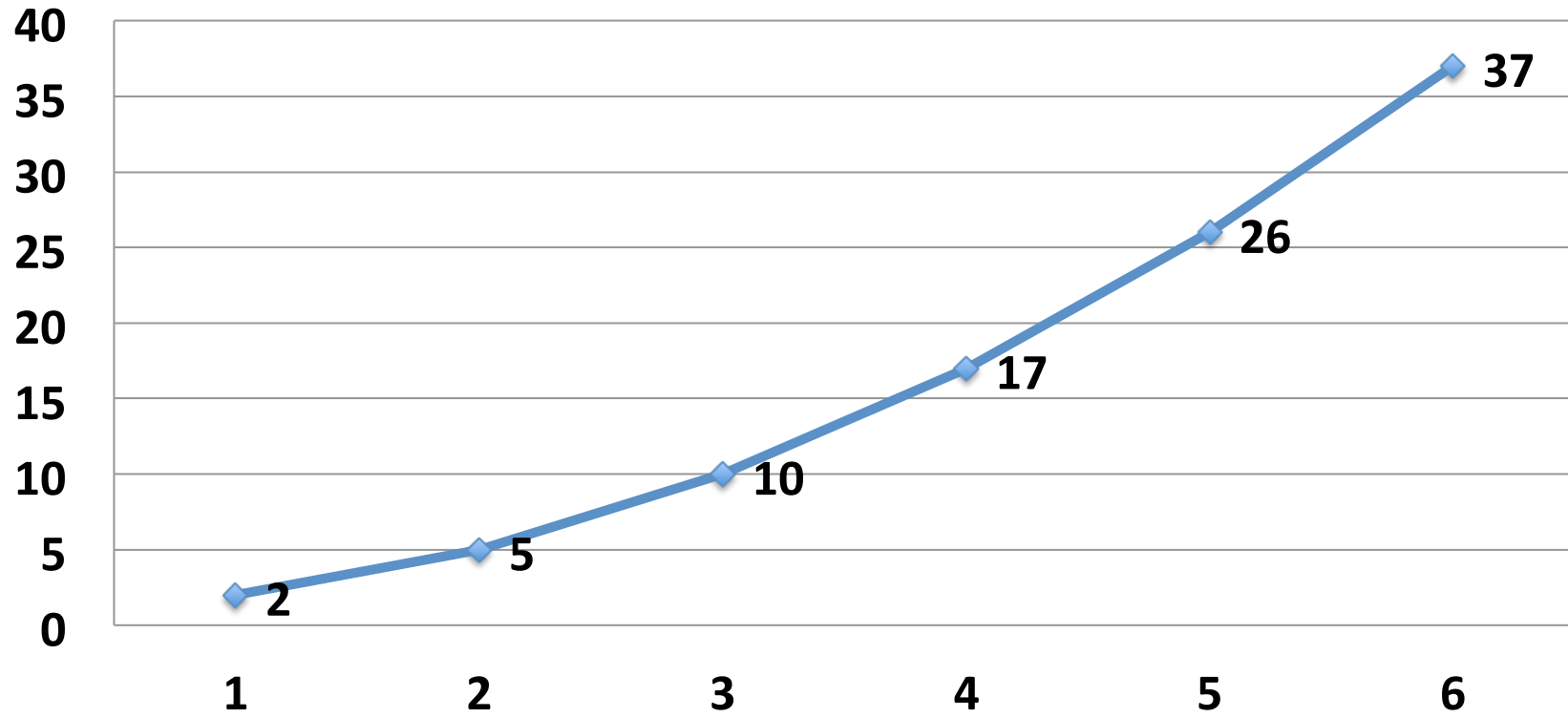
$$2(a^2-1)$$



$$2(a-1)^2$$



$$2a^2+1-a^2$$



FIN