

Algebra lesson 10 quiz

1) i) Draw the following graphs on the same grid

a) $y = x^2$

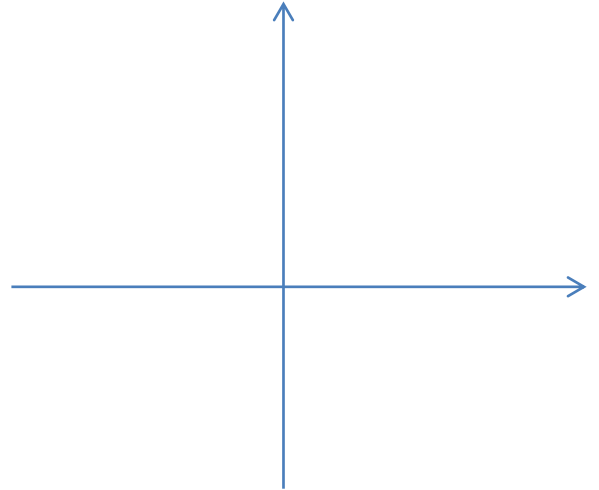
X					
Y					

b) $y = 2x^2$

X					
Y					

c) $y = 0.5x^2$

X					
Y					



ii) Describe what the coefficient a does in the formula $y = ax^2$

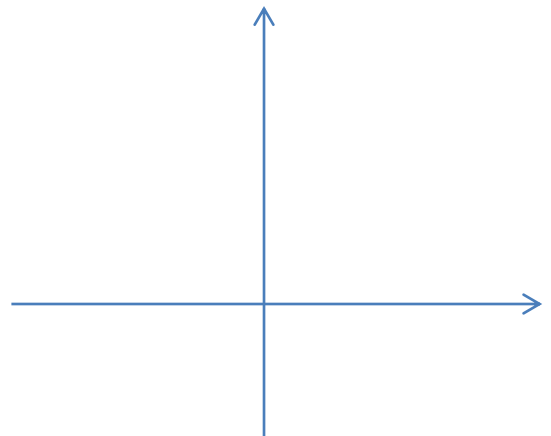
2) i) Draw the following graphs on the same grid:

a) $y = (x - 1)^2$

X					
Y					

b) $y = (x + 2)^2$

X					
Y					



ii) Describe what the constant b does in the formula $y = (x - b)^2$

Please turn over

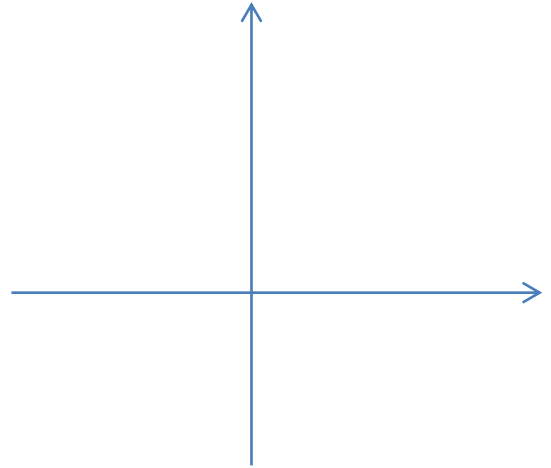
3) i) Draw the following equations on the same grid

a. $y = x^2 + 2$

X					
Y					

b. $y = x^2 - 3$

X					
Y					



ii) Describe what the constant c does in the formula $y = x^2 + c$

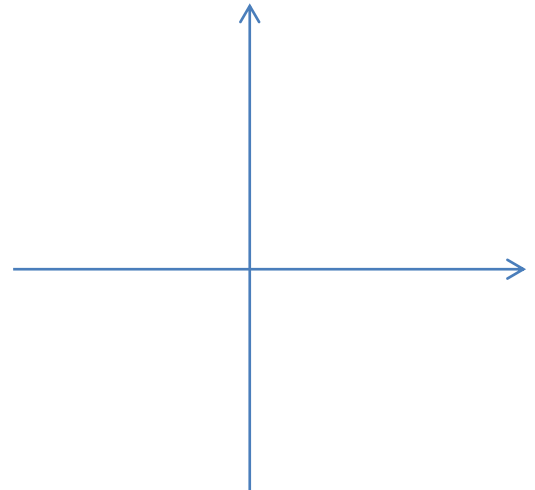
4) i) Draw the following equations on the same grid

a. $y = 2(x + 2)^2 - 3$

X					
Y					

b. $y = -2(x - 1)^2 + 2$

X					
Y					



c. From the general formula $y = a(x - b)^2 + c$

- Describe the effects of a , b , and c
- Describe how to find the turning point of the graph from b and c