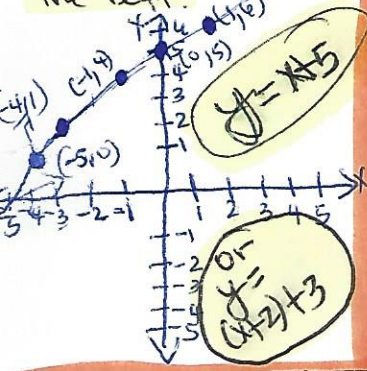


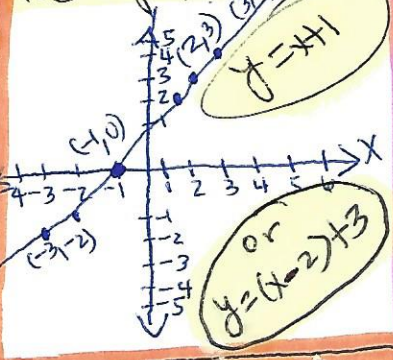
Answers:

$y = x + 3$

Shift 2 units to the left:



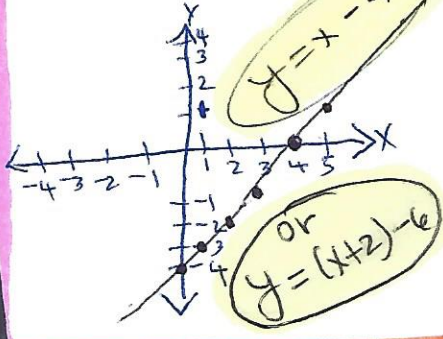
Shift 2 units to the right:



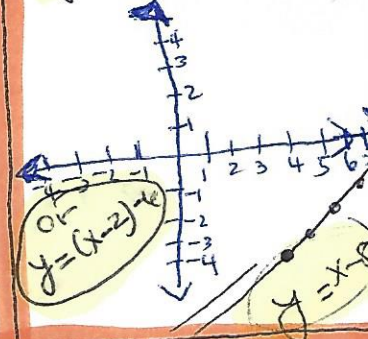
2

$y = x - 6$

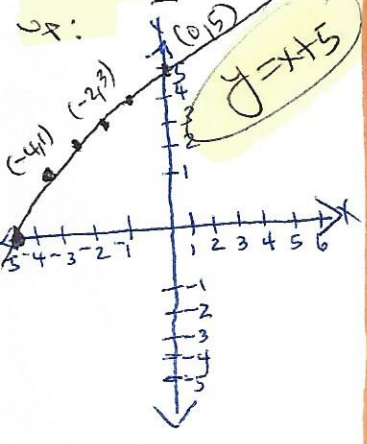
2 units to the left:



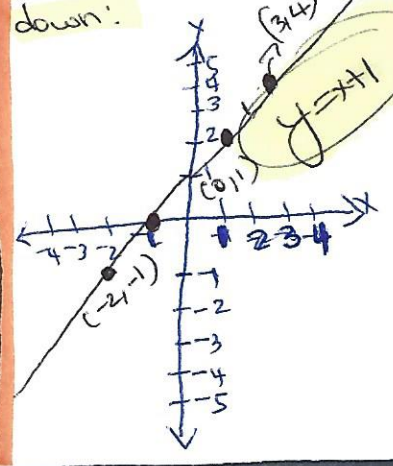
2 units to the right:



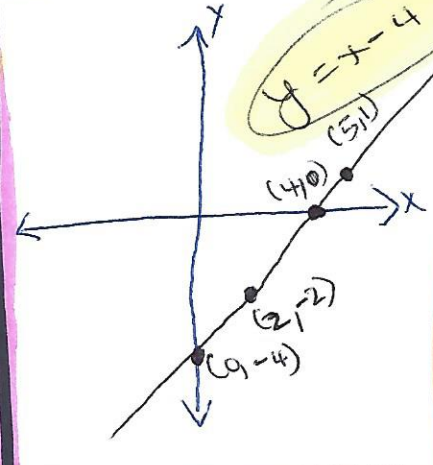
Shift 2 units up:



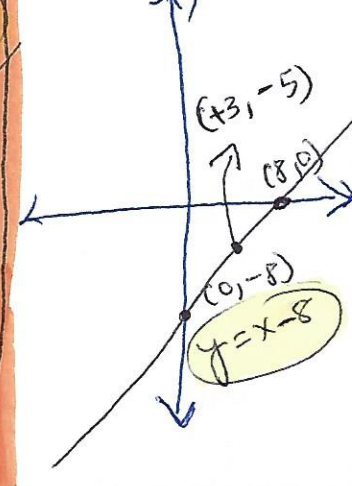
Shift 2 units down:



2 units up:



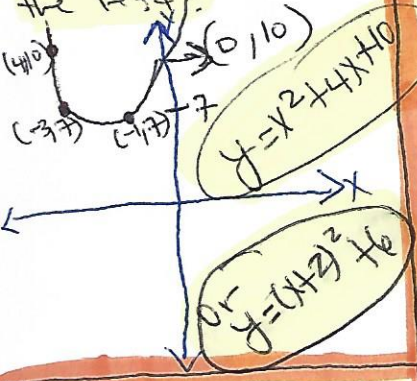
2 units down:



3

$y = x^2 + 6$

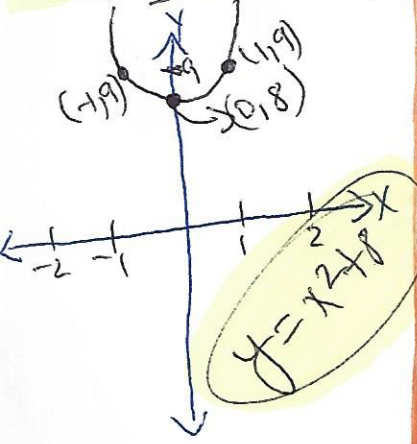
Shift 2 units to the left:



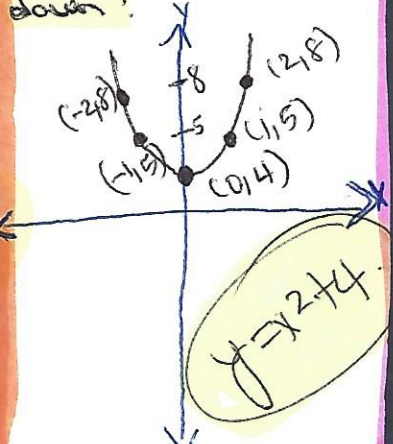
Shift 2 units to the right:



Shift 2 units up:



Shift 2 units down:



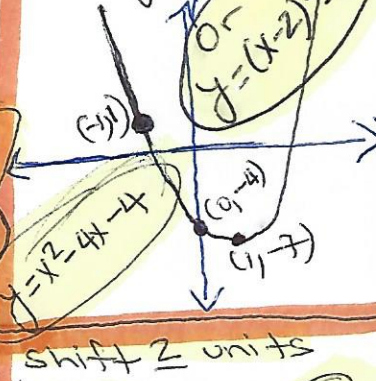
4

$y = x^2 - 8$

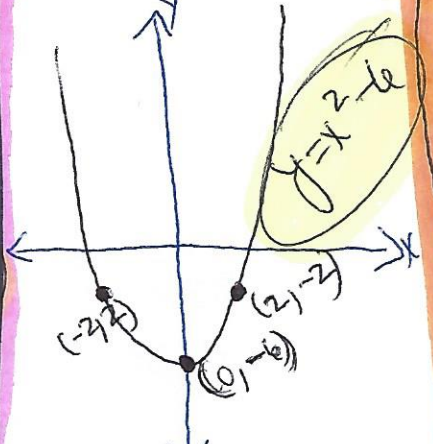
Shift 2 units to the left:



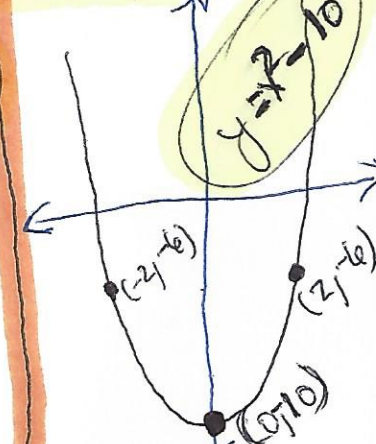
Shift 2 units to the right:



Shift 2 units up:



Shift 2 units down:



Answers 1

**5**  $y = -x^2 + 12$

Shift 2 units to the left:

Shift 2 units to the right:

or  $y = -(x+2)^2 + 12$  or  $y = -(x-2)^2 + 12$

**6**  $y = x^3 + 2$

Shift 2 units to the left:

or  $y = (x+2)^3 + 2$

Shift 2 units to the right:

or  $y = (x-2)^3 + 2$

Shift 2 units up:

Shift 2 units down:

or  $y = -x^2 + 14$  or  $y = -x^2 + 10$

Shift 2 units up:

Shift 2 units down:

or  $y = x^3 + 4$  or  $y = x^3$

**7**  $y = -x^3 + 8$

Shift 2 units to the left:

or  $y = -(x+2)^3 + 8$

Shift 2 units to the right:

or  $y = -(x-2)^3 + 8$

**8**  $y = -x^3 - 12$

Shift 2 units to the left:

or  $y = -(x+2)^3 - 12$

Shift 2 units to the right:

or  $y = -(x-2)^3 - 12$

Shift 2 units up:

Shift 2 units down:

or  $y = -x^3 + 10$  or  $y = -x^3 + 6$

Shift 2 units up:

Shift 2 units down:

or  $y = -x^3 - 10$  or  $y = -x^3 - 14$