

## Unit 2B Quiz Review

Show your work for all problems.

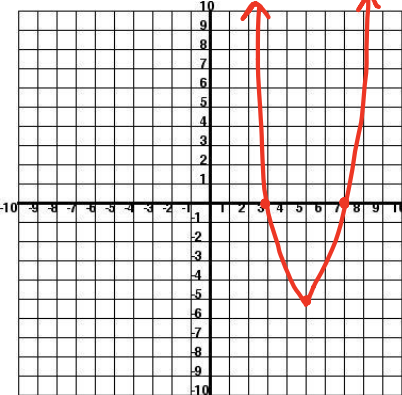
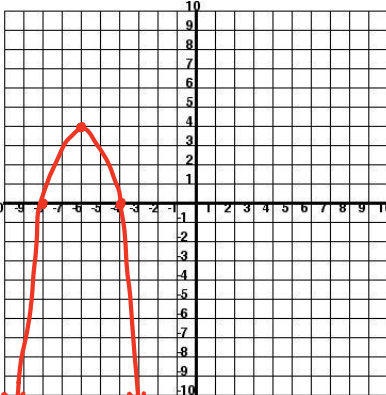
Solve the following by factoring.

1)	$x^2 + 6x + 8 = 0$  $x = -2$ $x = -4$	2)	$x^2 - 13x = x - 45$  $x = 9$ $x = 5$
3)	$7x^2 + 14x - 245 = 0$  $x = -7$ $x = 5$	4)	$8x^2 = 48x$  $x = 0$ $x = 6$

Solve the following using the square root method. Be sure to simplify all radicals.

5)	$x^2 - 17 = 1$  $x = \pm 3\sqrt{2}$	6)	$25x^2 + 4 = 53$  $x = \pm \frac{7}{5}$
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Solve the following by graphing. Be sure to identify the solution.

7)	$x^2 - 10x + 21 = 0$  $x = 3$ $x = 7$	8)	$-x^2 - 12x - 32 = 0$  $x = -8$ $x = -4$
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Solve the following using the quadratic formula. Be sure to simplify all radicals.

9)	$-2x^2 + 12x + 14 = 0$  $x = 7$ $x = -1$	10)	$x^2 + 6x + 14 = 0$  $x = -3 \pm i\sqrt{5}$
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