Name

Quadratic Formula - Equation to Radical Roots

1 What roots (solutions) would this quadratic equation have?

$$y = 5x^2 - 4x$$

A	B	C	D
$x = \frac{3 \pm \sqrt{16}}{10}$	$x = \frac{4 \pm \sqrt{16}}{8}$	$x = \frac{4 \pm \sqrt{16}}{10}$	$x = \frac{4 \pm \sqrt{13}}{10}$

2 What roots (solutions) would this quadratic equation have?

$$y = -3x^2 - 4x$$

A	B	C	D
$x = \frac{4 \pm \sqrt{16}}{-6}$	$x = \frac{4 \pm \sqrt{16}}{-9}$	$x = \frac{4 \pm \sqrt{15}}{-6}$	$x = \frac{4 \pm \sqrt{18}}{-6}$

3 What roots (solutions) would this quadratic equation have?

$$y = 3x^2 + x - 4$$

A	B
$x = \frac{-1 \pm \sqrt{49}}{10}$	$x = \frac{-1 \pm \sqrt{46}}{6}$
C	D
$x = \frac{-1 \pm \sqrt{51}}{6}$	$x = \frac{-1 \pm \sqrt{49}}{6}$

4 What roots (solutions) would this quadratic equation have?

$$y = 5x^2 - 2 - x$$

A	B	C	D
$x = \frac{1 \pm \sqrt{36}}{10}$	$x = \frac{1 \pm \sqrt{41}}{10}$	$x = \frac{1 \pm \sqrt{38}}{10}$	$x = \frac{1 \pm \sqrt{40}}{10}$

5 What roots (solutions) would this quadratic equation have?

$$y = 5x^2 - 5 - 2x$$

A	B
$x = \frac{2 \pm \sqrt{104}}{10}$	$x = \frac{2 \pm \sqrt{106}}{10}$
C	
$x = \frac{2 \pm \sqrt{99}}{10}$	

6 What roots (solutions) would this quadratic equation have?

$$y = -5x^2 + 4x$$

A	B
$x = \frac{-4 \pm \sqrt{17}}{-10}$	$x = \frac{-4 \pm \sqrt{16}}{-13}$
C	D
$x = \frac{-4 \pm \sqrt{14}}{-10}$	$x = \frac{-4 \pm \sqrt{16}}{-10}$

7 What roots (solutions) would this quadratic equation have?

$$y = -5x + 3x^2 - 3$$

A	B	C	D
$x = \frac{5 \pm \sqrt{61}}{6}$	$x = \frac{5 \pm \sqrt{64}}{6}$	$x = \frac{3 \pm \sqrt{61}}{6}$	$x = \frac{\pm\sqrt{61}}{6}$

8 What roots (solutions) would this quadratic equation have?

$$y = -2x^2 + 1$$

A	B	C	D
$x = \frac{\pm\sqrt{8}}{-4}$	$x = \frac{\pm\sqrt{10}}{-4}$	$x = \frac{\pm\sqrt{4}}{-4}$	$x = \frac{\pm\sqrt{3}}{-4}$