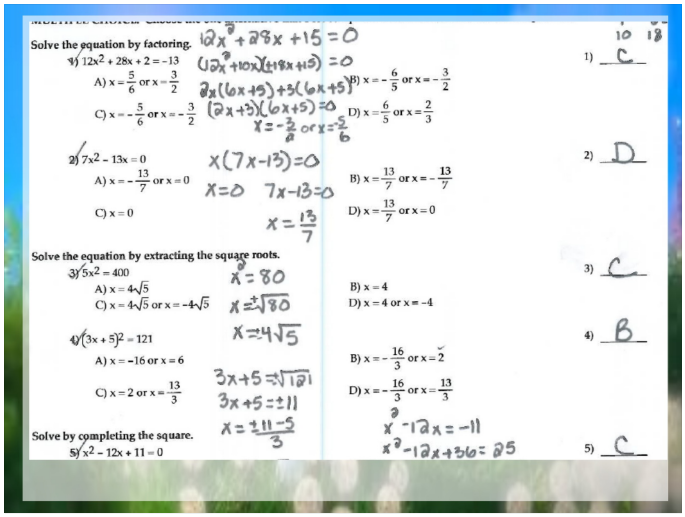


Solve the equation by factoring.

1) $12x^2 + 28x + 2 = -13$
A) $x = \frac{5}{6}$ or $x = \frac{3}{2}$
B) $x = -\frac{6}{5}$ or $x = -\frac{3}{2}$
C) $x = -\frac{5}{6}$ or $x = -\frac{3}{2}$
D) $x = \frac{6}{5}$ or $x = \frac{2}{3}$

2) $7x^2 - 13x = 0$
A) $x = -\frac{13}{7}$ or $x = 0$
B) $x = \frac{13}{7}$ or $x = -\frac{13}{7}$
C) $x = 0$
D) $x = \frac{13}{7}$ or $x = 0$

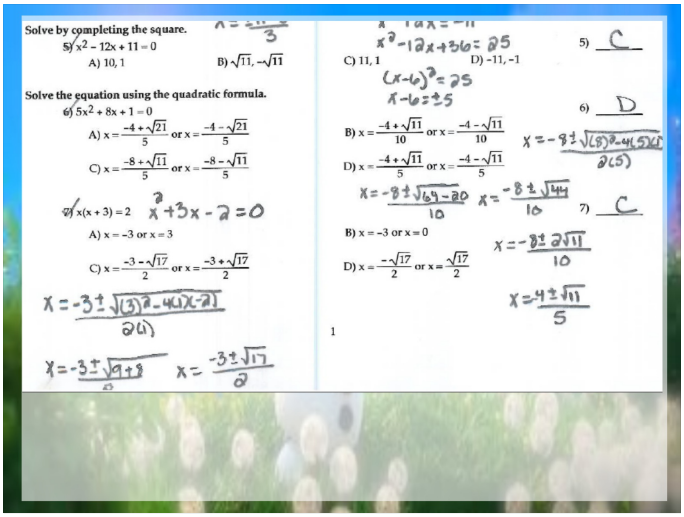
Solve the equation by extracting the square roots.

3) $5x^2 = 400$
A) $x = 4\sqrt{5}$
B) $x = 4$
C) $x = 4\sqrt{5}$ or $x = -4\sqrt{5}$
D) $x = 4$ or $x = -4$

4) $(3x + 5)^2 = 121$
A) $x = -16$ or $x = 6$
B) $x = -\frac{16}{3}$ or $x = 2$
C) $x = 2$ or $x = \frac{13}{3}$
D) $x = -\frac{16}{3}$ or $x = \frac{13}{3}$

Solve by completing the square.

5) $x^2 - 12x + 11 = 0$



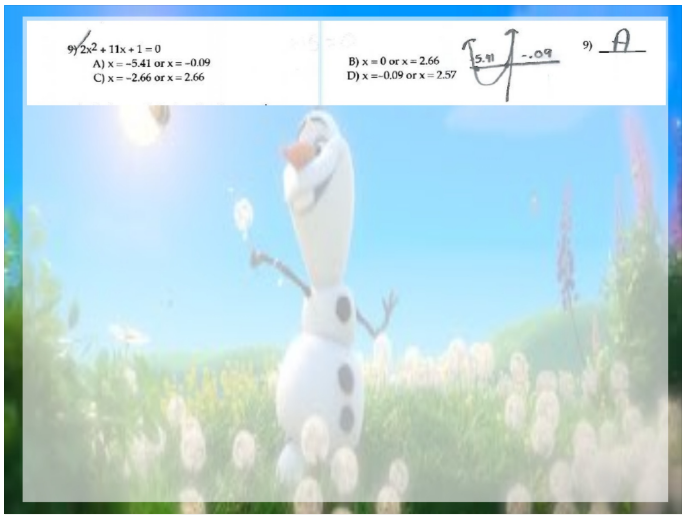
Solve by completing the square.

5) $x^2 - 12x + 11 = 0$
A) 10, 1
B) $\sqrt{11}, -\sqrt{11}$
C) 11, 1
D) -11, -1

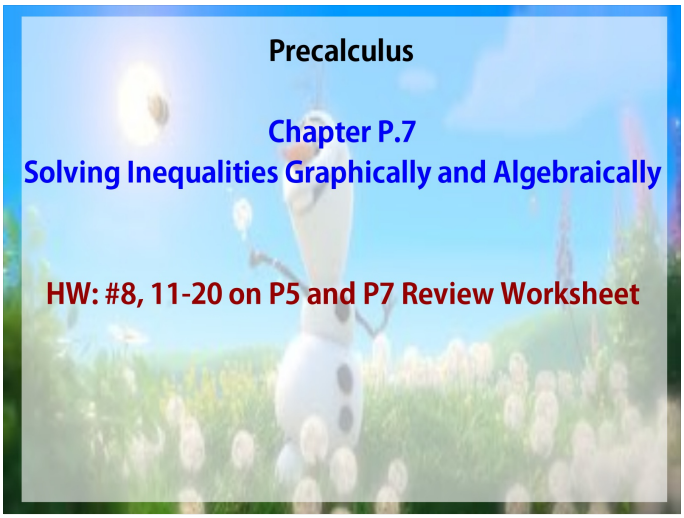
Solve the equation using the quadratic formula.

6) $5x^2 + 8x + 1 = 0$
A) $x = \frac{-4 + \sqrt{21}}{5}$ or $x = \frac{-4 - \sqrt{21}}{5}$
B) $x = \frac{-4 + \sqrt{11}}{10}$ or $x = \frac{-4 - \sqrt{11}}{10}$
C) $x = \frac{-8 + \sqrt{11}}{5}$ or $x = \frac{-8 - \sqrt{11}}{5}$
D) $x = \frac{-4 + \sqrt{11}}{5}$ or $x = \frac{-4 - \sqrt{11}}{5}$

7) $x(x + 3) = 2$
A) $x = -3$ or $x = 3$
B) $x = -3$ or $x = 0$
C) $x = \frac{-3 - \sqrt{17}}{2}$ or $x = \frac{-3 + \sqrt{17}}{2}$
D) $x = \frac{-\sqrt{17}}{2}$ or $x = \frac{\sqrt{17}}{2}$



9) $2x^2 + 11x + 1 = 0$
A) $x = -5.41$ or $x = -0.09$
B) $x = 0$ or $x = 2.66$
C) $x = -2.66$ or $x = 2.66$
D) $x = -0.09$ or $x = 2.57$



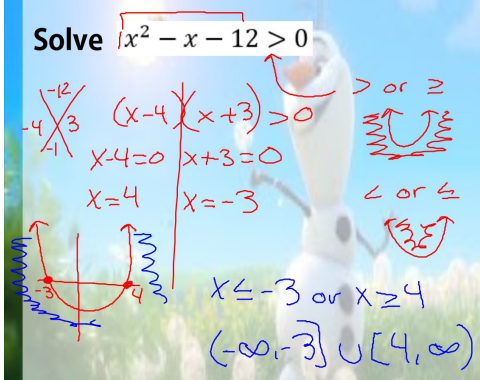
Precalculus

Chapter P.7
Solving Inequalities Graphically and Algebraically

HW: #8, 11-20 on P5 and P7 Review Worksheet

Solve a Quadratic Inequality

Solve $x^2 - x - 12 > 0$



$x \leq -3$ or $x \geq 4$

$(-\infty, -3] \cup [4, \infty)$

Solve a Quadratic Inequality

Solve $2x^2 + 3x \leq 20$

$[-4, 5/2]$