Solve by completing the square.

15) $x^2 = 9 - 4x$ 15) _____

Solve the equation.

16) $\frac{8x - 4}{4} + \frac{5x + 1}{5} = -\frac{1}{2}$ 16) _____

Solve the equation using the quadratic formula.

17) $x^2 - 12x + 45 = 0$ 17) _____

Write the expression in standard form.

18) $\frac{9 + 2i}{2 - 4i}$ 18) _____

Simplify the expression. Assume that the variables in the denominator are nonzero.

19) $\left(\frac{15a^6b^5}{ab^2}\right)\left(\frac{2b^2}{3a^3b^7}\right)$ 19) _____

1) $(-\infty, -\frac{3}{7}] \cup [\frac{5}{7}, \infty)$

2) $[-13, 3]$

3) $9 + 50i$

4) 34

5) 41

6) $9 + 2i$

7) $5 + 7i$

8) $(-2, 6)$

9) $(-4, 0) \cup (4, \infty)$

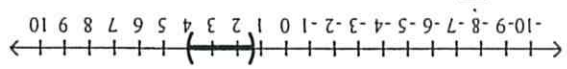
10) $(-\infty, -7] \cup [5, \infty)$

11) $2 < t < 4$

12) $x = -1.41$

13) $x = -1.30$ or $x = 2.30$

14)



15) $-2 \pm \sqrt{13}$

16) $x = \frac{1}{10}$

17) $6 \pm 3i$

18) $\frac{1}{2} + 2i$

19) $\frac{10a^2}{b^2}$