

Unit P Review

Simplify.

1) $(-8i)(-2i) + (5i)(-7 + i)$

2) $(-3i) - 3 - (3 + i)$

3) $(2 - 8i)(8 + 4i)$

4) $(-3 - i)(7 + 4i)$

5) $\frac{4i}{-8 - i}$

6) $\frac{7 + 6i}{-10 + i}$

7) $\frac{4i}{9 + 6i}$

Solve each equation.

8) $b^2 - 10b - 5 = 0$

9) $2n^2 - 39 = 4n$

10) $r^2 + r - 2 = 0$

11) $m^2 = 28$

12) $3x^2 - 80 = -8x$

Answers to Unit P Review

1) $-21 - 35i$

2) $-6 - 4i$

3) $48 - 56i$

4) $-17 - 19i$

5) $\frac{-32i - 4}{65}$

6) $\frac{-64 - 67i}{101}$

7) $\frac{12i + 8}{39}$

8) $10.477, -0.477$

9) $\frac{2 + \sqrt{82}}{2}, \frac{2 - \sqrt{82}}{2}$

10) $1, -2$

11) $2\sqrt{7}, -2\sqrt{7}$

12) $4, -\frac{20}{3}$