Lesson 2.5 Worksheet

Express each number in terms of i.

1.
$$-5\sqrt{-27}$$

2.
$$3\sqrt{-192}$$

Solve a quadratic equation using square roots and imaginary solutions.

3.
$$3n^2 - 3 = -27$$

4.
$$2m^2 + 4 = -32$$

Find the zeros of each function by completing the square.

5.
$$n^2 + 8n + 68 = 0$$

6.
$$3m^2 - 6m + 87 = 0$$

Multiply complex numbers.

7.
$$(3 + 5i)(-7 - 6i)$$

Evaluate each power of i. (Remember $i^2 = -1$)