Answers to Worksheet 15 - Lesson 46

1)
$$x^2(x-1)(x^2+x+1)(x+1)(x^2-x+1)=0$$

1)
$$x^2(x-1)(x^2+x+1)(x+1)(x^2-x+1) = 0$$
 2) $(x-1)(x+1)(x^2+1)(x-2)(x+2)(x^2+4) = 0$ 3) $x^2(x^2+2)(x^2+4) = 0$ 4) $x(x-1)(x^2+x+1)(x^2+x+1)(x^2-x+1) = 0$

3)
$$x^2(x^2 + 2)(x^2 + 4) = 0$$

4)
$$x(x-1)(x^2+x+1)(x+1)(x^2-x+1)=0$$

6)
$$\left\{\frac{1+i\sqrt{23}}{6}, \frac{1-i\sqrt{23}}{6}\right\}$$
 7) $\left\{\frac{2+i\sqrt{2}}{2}, \frac{2-i\sqrt{2}}{2}\right\}$

7)
$$\left\{\frac{2+i\sqrt{2}}{2}, \frac{2-i\sqrt{2}}{2}\right\}$$

8)
$$\{-2 + i\sqrt{5}, -2 - i\sqrt{5}\}$$

$$(6)$$
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