

2nd Hour Solving Polynomials

Quest Review.

① $x = -2$
 $x = 1$
 $x = 5$

② $x = 0$
 $x = 1$

③ $x = -3.5$
 $x = 0$
 $x = 1$

④ $x = -\frac{1}{2}$
 $x = 0$
 $x = 3$

⑤ $x = -\frac{1}{2}$
 $x = 0$
 $x = \frac{3}{2}$

$$(6) (a+b)(a^2-ab+b^2)$$

$$(7) (a-b)(a^2+ab+b^2)$$

$$(8) x(x-3)(x-3)$$

$$x=0$$

$$x=3$$

$$x=3$$

$$(9) (x+3)(x^2-3x+9)$$

$$x=-3$$

$$x = \frac{3 \pm 3i\sqrt{3}}{2}$$

$$(10) 2x(x-5)(x-4)$$

$$x=0$$

$$x=5$$

$$x=4$$

$$(11) (x-5)(x^2+5x+25)$$

$$x=5$$

$$x = \frac{-5 \pm 5i\sqrt{3}}{2}$$

$$(12) x(x+1)(3x-5)$$

$$x=0$$

$$x=-1$$

$$x = \frac{5}{3}$$

$$(13) (3x+1)(9x^2-3x+1)$$

$$x = -\frac{1}{3}$$

$$x = \frac{1 \pm i\sqrt{3}}{6}$$

$$\textcircled{14} (2x-3)(4x^2+6x+9)$$

$$x = \frac{3}{2}$$

$$x = \frac{-3 \pm 3i\sqrt{3}}{4}$$

$$\textcircled{15} 8(2x-3)(4x^2+6x+9)$$

$$x = \frac{3}{2}$$

$$x = \frac{-3 \pm 3i\sqrt{3}}{4}$$