



PING YI SECONDARY SCHOOL

Perseverance Yields Success

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Class 302

Subject Math

No. 20

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Ex 2.1 <Pg 31>

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

$$(x-3)(x-1) = 0$$

$$(x-3) = 0 \text{ or } (x-1) = 0$$

$$x = 3 \# \text{ or } x = 1 \#$$

b) $x^2 - 2x - 8 = 0$

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

$$(x-4) = 0 \text{ or } (x+2) = 0$$

$$x = 4 \# \text{ or } x = -2 \#$$

c) $2x^2 - 3x + 1 = 0$

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

$$(2x-1) = 0 \text{ or } (x-1) = 0$$

$$2x = \frac{1}{2} \text{ or } x = 1 \#$$

$$x = \frac{1}{2} \#$$

g) $8x^2 + 10x + 3 = 0$

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

$$(4x+3) = 0 \text{ or } (2x+1) = 0$$

$$x = -\frac{3}{4} \# \text{ or } x = -\frac{1}{2} \#$$

h) $14x^2 - 29x = 15$

$$14x^2 - 29x - 15 = 0$$

$$(7x+3)(2x-5) = 0$$

$$(7x+3) = 0 \text{ or } (2x-5) = 0$$

$$x = -\frac{3}{7} \# \text{ or } x = \frac{5}{2} \#$$

2a) $x^2 - 2x = 5x - 12$

$$x^2 - 2x - 5x + 12 = 0$$

$$x^2 - 7x + 12 = 0$$

$$(x-3)(x-4) = 0$$

$$(x-3)=0 \quad \text{or} \quad (x-4)=0$$

$$x=3 \# \quad \text{or} \quad x=4 \#$$

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