MATHEMATICS GRADE 11 NOTES

EXAMPLES:

Example 1

$$(x-3)(x+5) = 9$$

 $x^2 + 5x - 3x - 15 - 9 = 0$
 $x^2 + 2x - 24 = 0$
 $(x+6)(x-4) = 0$
 $x = -6$ or $x = 4$

Example 2

$$\sqrt{x-2} + x = 4$$

$$\sqrt{x-2} = 4 - x$$

$$x - 2 = (4 - x)^{T}$$

$$x - 2 = 16 - 8x + x^{2}$$

$$x^{2} - 8x + 16 - x + 2 = 0$$

$$x^{2} - 9x + 18 = 0$$

$$(x-3)(x-6) = 0$$

$$x = 3 \quad \text{or} \quad x = 6$$
after checking both solutions

x = 3 is the only solution

Example 3

$$15x - 4 > 9x^{2}$$

$$15x - 4 - 9x^{2} > 0$$

$$9x^{2} - 15x + 4 < 0$$

$$(3x - 1)(3x - 4) < 0$$



$$\frac{1}{3} < x < \frac{4}{3}$$

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the mass of the cart plus the mass of the piece of iron that pulls it both masses accelerate

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