

January 25, 2017

$$1.) x(x-6) = 3$$

$$x^2 - 6x = 3$$

$$x^2 - 6x + \frac{9}{4} = 3 + \frac{9}{4}$$

$$(x - \frac{3}{2})^2 = \frac{21}{4}$$

$$x - \frac{3}{2} = \pm \sqrt{\frac{21}{4}}$$

$$x = \frac{3}{2} \pm \frac{\sqrt{21}}{2}$$

$$3 - 2\sqrt{3} (3 - 2\sqrt{3} - 6) = 3$$

3

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$$5c(c-2) = 6 + 3c$$

$$5c^2 - 10c = 6 + 3c$$

$$5c^2 - 13c - 6 = 0$$

$$\frac{5c^2 - 13c + \frac{169}{20}}{20} = \frac{6}{5} + \frac{169}{20}$$

$$c^2 - \frac{13}{5}c + \frac{169}{100} = \frac{6}{5} + \frac{169}{100}$$

$$(c - \frac{13}{10})^2 = \frac{120 + 169}{100}$$

$$(c - \frac{13}{10})^2 = \frac{289}{100}$$

$$c - \frac{13}{10} = \pm \frac{17}{10}$$

$$c = \frac{13}{10} \pm \frac{17}{10}$$

$$= \frac{13 \pm 17}{10}$$

$$c = 3$$

$$c = -\frac{4}{5}$$

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Absolute Value

$$| \text{stuff} | = k$$

① if  $k > 0$

ⓐ  $\text{stuff} = k$

ⓑ  $\text{stuff} = -k$

Jan 25-10:43 AM