

MATH 125: In-Class Practice for Final Exam (Part 1)

For problems 1 – 4, solve the given equation. If the equation has no solution, write “no solution”.

1. $3x^2 + 2x = 10$
 $-3x^2 - 2x = -10$

$$4x^2 + 7x + 3 = 0 \quad (3x^2 + 2x = 10 \Rightarrow 4x^2 + 7x + 3 = 0)$$

$$x = \frac{-7 \pm \sqrt{7^2 - 4(4)(3)}}{2(4)}$$

$$x = \frac{-7 \pm \sqrt{49 - 48}}{8} = \frac{-7 \pm \sqrt{1}}{8} = \frac{-7 \pm 1}{8}$$

$$x = \frac{-7 + 1}{8} = -\frac{3}{4}$$

$$x = \frac{-7 - 1}{8} = -1$$

Solution: $x = -\frac{3}{4}$ and $x = -1$

2. $2\sqrt{2x-7} + 4 = 30$
 $-2\sqrt{2x-7} = -26$

$$\frac{2\sqrt{2x-7}}{2} = \frac{-26}{-2}$$

$$\sqrt{2x-7} = 13$$

$$(\sqrt{2x-7})^2 = 13^2$$

$$2x-7 = 169$$

$$2x = 176$$

Check:

$$2\sqrt{2(88)-7} + 4 = 30$$

$$2\sqrt{176-7} + 4 = 30$$

$$2\sqrt{169} + 4 = 30$$

$$2(13) + 4 = 30$$

$$26 + 4 = 30$$

3. $2x^2 + 2 = 10$

$$2x^2 = 8$$

$$\frac{2x^2}{2} = \frac{8}{2}$$

$$x^2 = 4$$

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

$$x = \pm \sqrt{4}$$

$$x = \pm \sqrt{\frac{2x^2 + 2 - 2}{2}}$$

$$x = \pm \sqrt{\frac{10 - 2}{2}}$$

$$x = \pm \sqrt{\frac{8}{2}}$$

$$x = \pm \sqrt{4}$$

$$x = \pm 2$$

$$2x^2 = 8$$

$$x^2 = 4$$

$$x = \pm 2$$

4. $\log_5 125 = x$

$$\frac{\log_5 125}{\log_5 5} = x$$

$$x = 3$$

Check:
 $\log_5 125 = 3$

5. $2x^2 + 3x = 18$
 $-2x^2 - 3x = -18$

$$4x^2 + 6x - 36 = 0$$

$$x = \frac{-6 \pm \sqrt{6^2 - 4(4)(-36)}}{2(4)}$$

Using your calculator for results:

Math 95 Practice Test

Emilie Sanchez



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