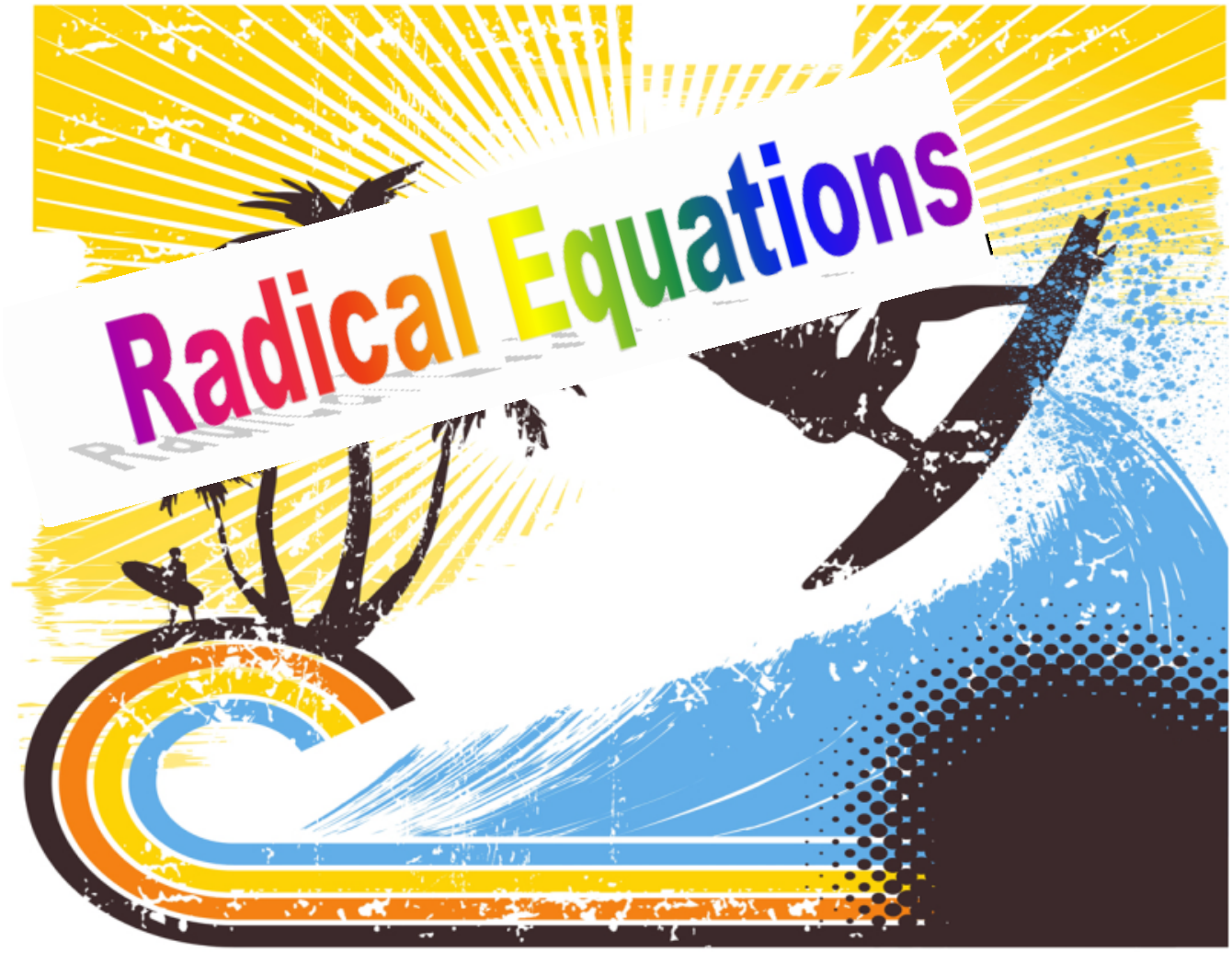
Radical Equations


How do you solve a radical equation?
?
??
I hope she isn't asking me!
I can tell you!

Solving radical equations:

1. Isolate the radical.
   Get the radical alone on one side.
2. Eliminate the radical.
   Square both sides.
3. Solve for the variable.

$$\left(\sqrt{3x}\right)^2 = (6)^2$$

$$\frac{3x}{3} = \frac{36}{3}$$

$$x = 12$$

Solving radical equations:

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$$\sqrt{2x} + 3 = 5 - 3$$

$$(\sqrt{2x})^2 = (2)^2$$

$$\frac{2x}{2} = \frac{4}{2}$$

$$x = 2$$

Solving radical equations:

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$5\sqrt{2x} - 10 = 30$ +10

$\frac{5\sqrt{2x}}{5} = \frac{40}{5}$

$(\sqrt{2x})^2 = (8)^2$

$\frac{2x}{2} = \frac{64}{2}$

$x = 32$

Solving radical equations:

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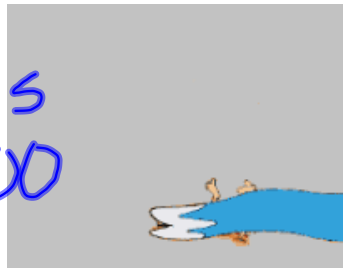
$$\left(\sqrt{\frac{k}{5}}\right)^2 = 60^2$$

$$\frac{k}{5} = 3600$$

$\times 5 \quad \times 5$

$$k = 18000$$



$$\frac{k}{5} = \frac{3600}{1}$$

$$k = 18000$$

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$6\sqrt{\frac{t}{7}} + 4 = 22$ -4

$\frac{6\sqrt{\frac{t}{7}}}{6} = \frac{18}{6}$

$\left(\sqrt{\frac{t}{7}}\right)^2 = 3^2$

$\frac{t}{7} = 9$

$t = 63$

$$\frac{3\sqrt{m+5}}{3} = \frac{24}{3}$$

$$\left(\sqrt{m+5}\right)^2 = (8)^2$$

$$m + 5 = 64 - 5$$

$$m = 59$$

Solving radical equations:

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Classwork /Homework