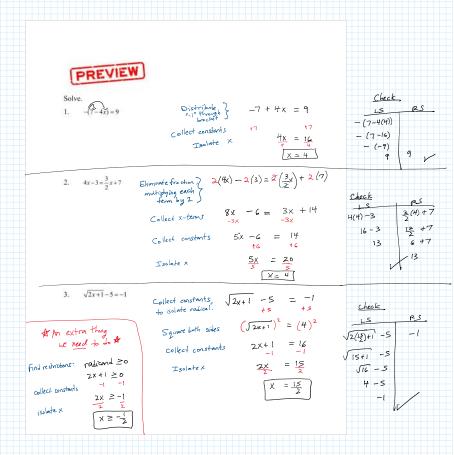
PREVIEW

Solve.

1.
$$-(7-4x)=9$$

2.
$$4x-3=\frac{3}{2}x+7$$

3.
$$\sqrt{2x+1}-5=-1$$







1. For each equation

- give its restrictions
 solve it algebraically
 verify your solution by checking it in the original equation

a)
$$\frac{\sqrt{6-5x}}{3} = 2$$

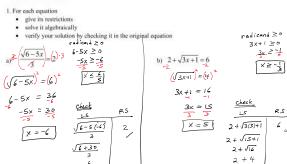
b)
$$2 + \sqrt{3x+1} = 6$$

2. The time, T seconds, for a pendulum to make one swing is given by this formula:

$$T=2\pi\sqrt{\frac{L}{9.8}}~$$
 , where L is the length of the pendulum in meters

If a pendulum takes 9 seconds to complete one swing, what is the length of that pendulum, correct to one decimal place?





2. The time, T seconds, for a pendulum to make one swing is given by this formula:

$$T=2\pi\sqrt{\frac{L}{9.8}}$$
 , where L is the length of the pendulum in meters

If a pendulum takes 9 seconds to complete one swing, what is the length of that pendulum, correct to one decimal place?
$$\frac{q}{2\pi} = \frac{2\pi}{2\pi} \sqrt{\frac{\frac{1}{p-8}}{\frac{1}{2\pi}}} = \frac{2\pi}{\sqrt{\frac{1}{p-8}}} \sum_{k=0}^{\infty} \left(\frac{1}{2\sqrt{p}}\right)^{2k} = \left(\frac{1}{\sqrt{\frac{1}{p-8}}}\right)^{2k}$$

$$L \geq 0$$

$$8. \left(\frac{81}{4\pi^2}\right) = \left(\frac{L}{2.8}\right). \left(\frac{2.8}{9.8}\right).$$

$$L = \frac{(9.8)(81)}{(4\pi^2)}$$

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$$= \frac{L}{20.1 \text{ m}}$$

$$= 20.10718889 \text{ meters}$$

$$= 20.1 \text{ m}$$