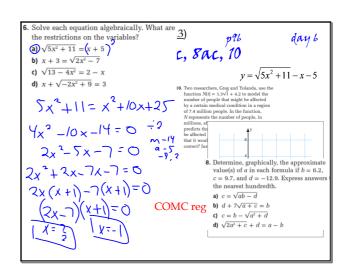
Solving Radical Equations II (2.3) p96 day 6 Enneagram 2 Loves to take care of others Core longing: feeling loved being unworthy Very helpful Core fear: Deadly sin: pride Does not know how to say no Puts their own needs last mom & weekend Great listeners Expect others to know what they need



Solving Radical Equations II (2.3)

ex1: state the restrictions on the variable $\sqrt{3x-5} = x-5$ 3x-5 = 0 $x-5 \ge 0$ $x \ge 5$ $x \ge 7$ $x \ge 7$

Solving Radical Equations II (2.3)

ex2: The speed of water flowing out of a hole near the bottom of a tank is modeled by $s = \sqrt{2gh}$ where:

g is the acceleration due to gravity in m/s²
h is the height of the water in m

At what height is the water flowing out at 9 m/s? $9 = \sqrt{2(9.8)h}$ $8 = \sqrt{9.6}$ $9 = \sqrt{2(9.8)h}$ $1 = \sqrt{9.6}$ $1 = \sqrt{9.6}$

Solving Radical Equations II (2.3)

ex3:

12. Cables and ropes are made of several stronds that contain addividual wires or threads. The temp '7 × 19 cable' pietrs to a cable with 7 strangh, each ontaining 19 whres to a cable with 7 strangh, each ontaining 19 whres Suppose a manufacturer uses the function $d = \sqrt{\frac{b}{30}}$ to relate the diameter, d, in millimetres, of its 7 × 19 stainless steel aircraft cable to the safe working load, b, in kilograms.

As it is large enough to support a mass of 1000 kg?

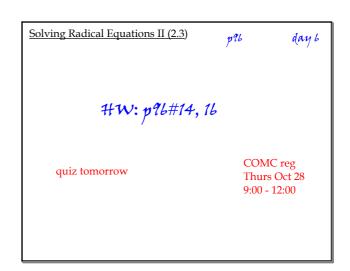
(b) What is the safe working load for a cable that is 10 mm in diameter?

What are the units for 30?

Solving Radical Equations II (2.3) ex4: Solve $10 = -2\sqrt{3x-5}$ $y = -2\sqrt{3x-5}-10$ $-5 = \sqrt{3x-5}$ ro solution

Can't $\sqrt{3x-5}$ and $\sqrt{3x-5}$ are $\sqrt{3x-5}$ what does the graph look like?

7.6)
$$Y = x + 2\sqrt{x-7}$$
 $x-720$ $y-x = 2\sqrt{x-7}$ $y-720$ $y-x = 4(x-7)$ $y-x = 4(x-7)$ $y-x = 6$ $y-x = 6$ $y-x = 6$





quiz2.pdf