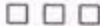


(d) Explain why phosphorus trichloride (PCl_3) is polar.

God made it that way.

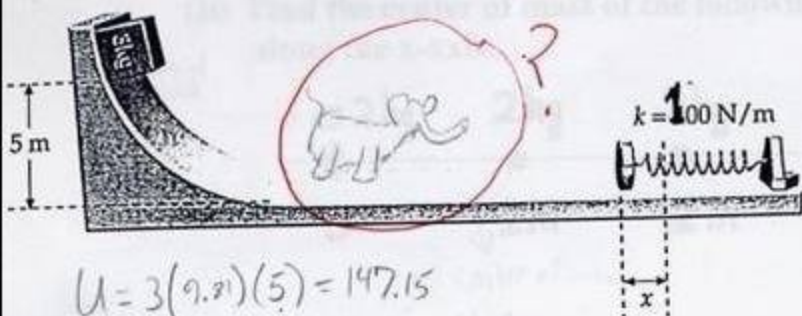


2. A 3-kg object is released from rest at a height of 5m on a curved frictionless ramp. At the foot of the ramp is a spring of force constant $k = 100 \text{ N/m}$. The object slides down the ramp and into the spring, compressing it a distance x before coming to rest.

10

(a) Find x .

5 (b) Does the object continue to move after it comes to rest? If yes, how high will it go up the slope before it comes to rest?



$$U = 3(9.81)(5) = 147.15$$

$$U_s = \frac{1}{2}(100)x^2 = 50x^2 \dots ?$$

NO. there is an elephant in the way.



PETER

1.21

40) Expand

~~$a^2 + ac - 2$~~

$$(a+b)^n$$

Very funny, Peter.

$$= (a + b)^n$$

$$= (a + b)^n$$

$$= (a + b)^n$$

etc...

Transparency Worksheet 23

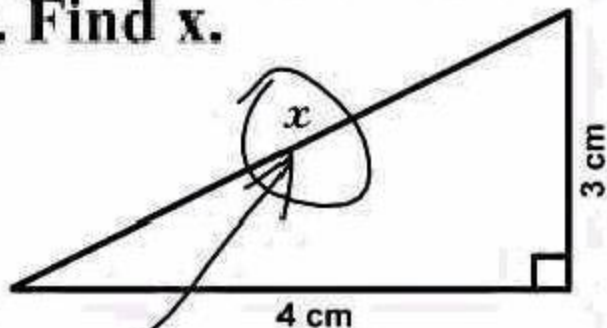
Hard and Soft Water

1. Briefly explain what hard water is.

ice

2. Note that calcium is one of the solids dissolved in ocean water. Describe two ways by which calcium ends up in sedimentary rock.

3. Find x .



Here it is