

Subject: FW: Fantastic Responses

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Date: Thu, 04 Feb 2010 19:35:43 -0800

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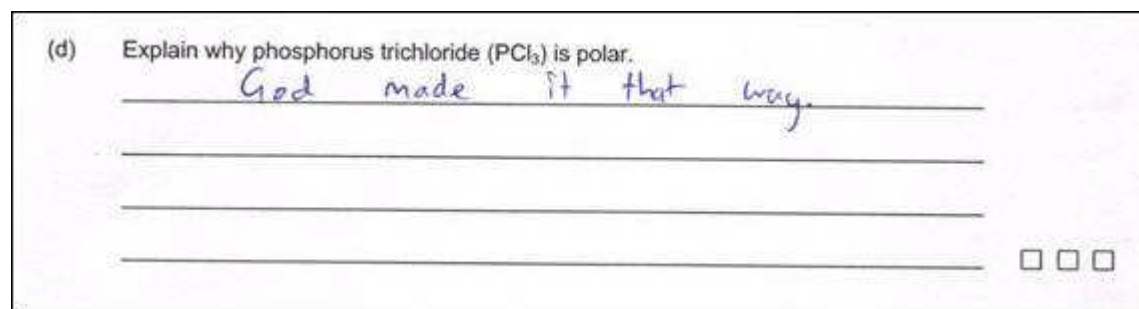
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Subject: Fw: Fantastic Responses

Date: Mon, 1 Feb 2010 15:04:42 -0800

I love the cheque to Verizon....



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?

The diagram shows a curved ramp of height 5m. A 3-kg object is at the top. At the bottom, there is a spring with force constant $k = 100 \text{ N/m}$. The spring is compressed by a distance x . A handwritten elephant is drawn in the middle of the ramp, with a question mark above it. Below the diagram, there are handwritten calculations:

$$U = 3(9.8)(5) = 147.15$$

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

Below the calculations, it says: "NO. there is an elephant in the way." To the right of this text is a circled '0'.

(c) Tracey says



$(\sqrt{2} + \sqrt{8})$ is an irrational number
 $(\sqrt{2} + \sqrt{8})^2 = 18$
 I think that if you square an
 number you always get a ratio

Tracey is wrong.
 Use an example to show that Tracey is wrong.

She's a woman

CHECKING IN (Answer on your own and hand in to your instructor)

The water of the earth's oceans stores lots of heat. An engineer designed an ocean liner that would extract heat from the ocean's waters at $T_h = 10^\circ\text{C}$ (283 K) and reject heat to the atmosphere at $T_l = 20^\circ\text{C}$ (293 K). He thought he had a good idea, but his boss fired him. Explain.

Because he slept with his boss' wife. - *Jathum... oh dear!*

PETER

1.21

4b) Expand

~~$(a+b)^2$~~

$(a+b)^n$ *Very funny Peter.*

$= (a + b)^n$

$= (a + b)^n$

$= (a + b)^n$

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

etc...

(b) Sea salt is commercially obtained from sea water by the process of evaporation and crystallization. The main component of sea salt is sodium chloride.

What type of attractive force or bond holds the sodium ions and chloride ions together in a crystal of sodium chloride?

 Ionic bond

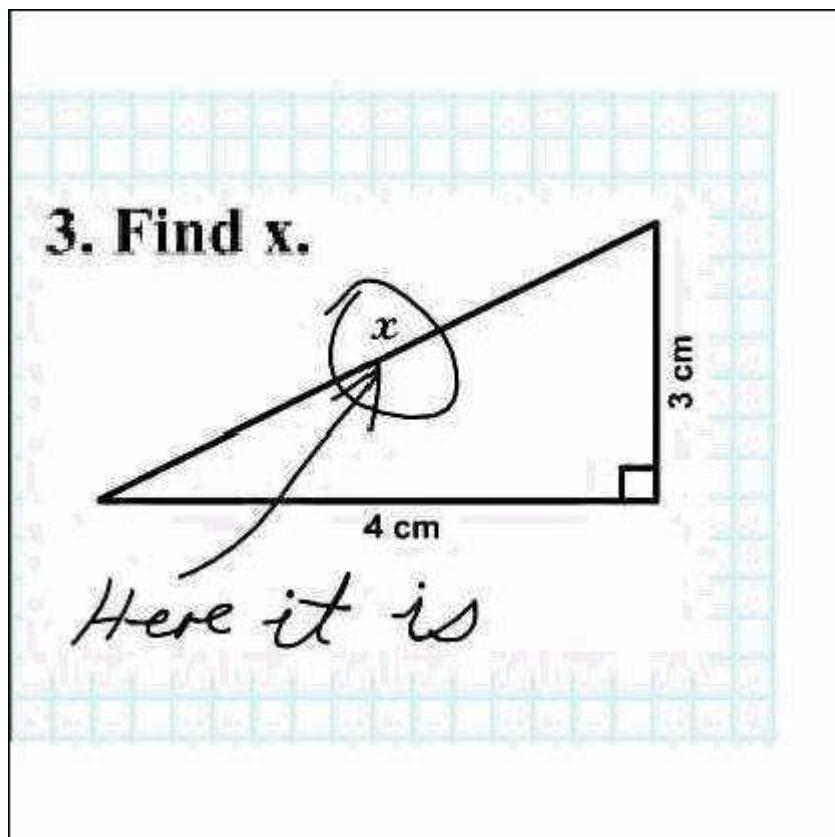
Transparency Worksheet 23 Hard and Soft Water

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 and its ions are removed from ocean water.





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