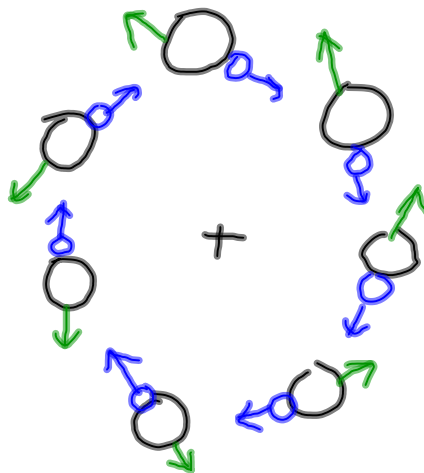


Answers to 2/6/15 Momentum Practice Problems handout (dated 2/5/15).

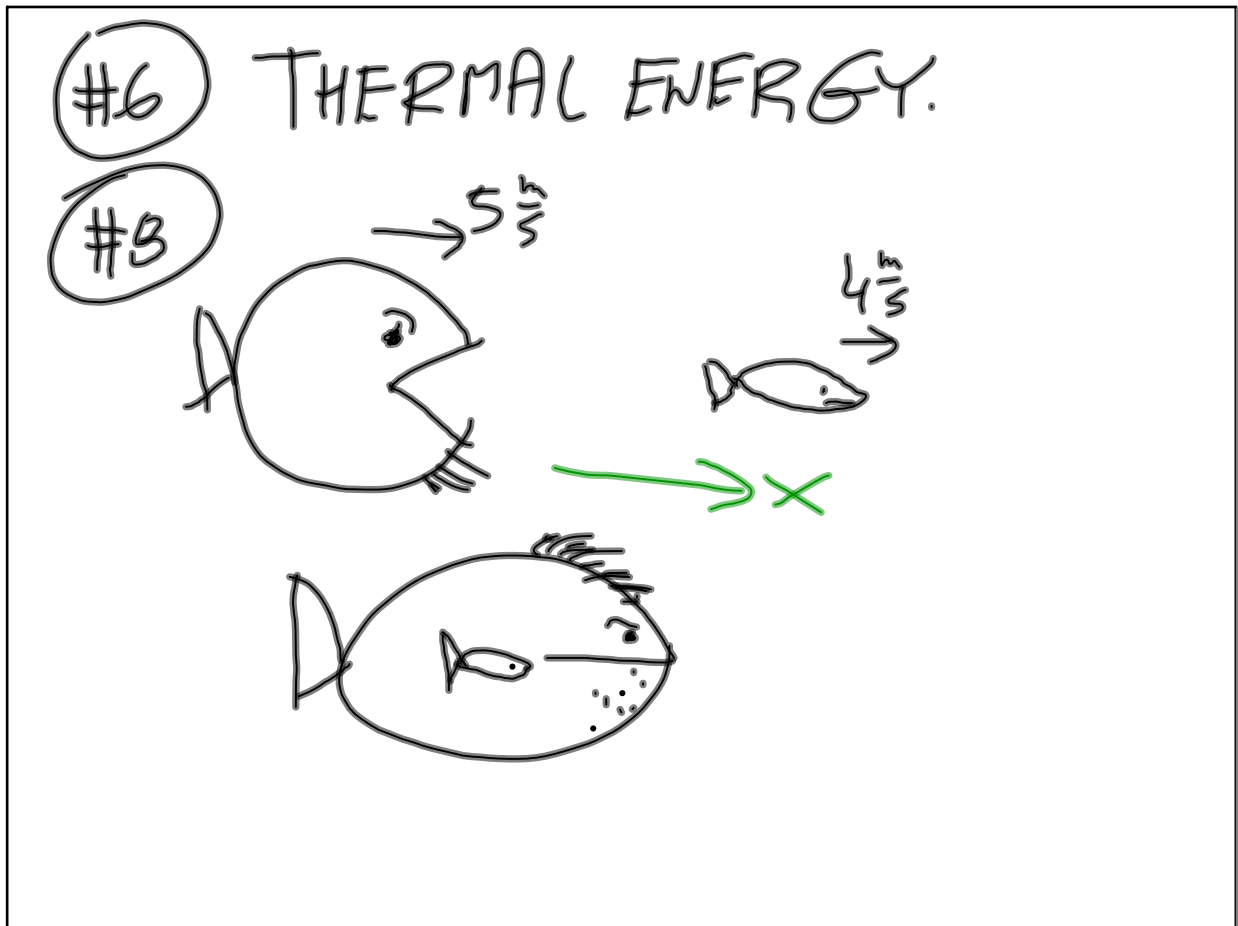
- 1) 0.7 m/s
- 2) 0.47 m/s
- 3) 112.5 Ns
- 4) -868 N
- 5) that's a good one...draw (think: explosion)
- 6) lets talk...
- 7) 3.54 m/s
- 8) 4.84 m/s
- 9) a) T
b) F
c) T

Feb 9-10:01 AM

HW HANDOUT
#5



Feb 9-9:22 AM



$$P_0 = P_F$$

$$(4)(5) + (0.75)(4) = (4 + 0.75)V_F$$

$$\underline{V_F = 4.84 \frac{m}{s}}$$

Feb 9-9:35 AM

DEMO:

$J = \Delta p$

$p_0 = p$
 $p_f = -\frac{3}{4}p$

 $\Delta p = -\frac{3}{4}p - p$
 $\Delta p = -\frac{7}{4}p$

wooden board falls

$p_0 = p$
 $p_f = 0$

 $\Delta p = 0 - p$
 $\Delta p = -p$

wooden board stands

Feb 9-12:50 PM