

T-A2 Algebra 2 9/20 Week 3

Find the opposite reciprocal

$$8 \rightarrow -8 \rightarrow \boxed{-\frac{1}{8}}$$

$$-\frac{4}{3} \rightarrow \frac{4}{3} \rightarrow \boxed{\frac{3}{4}}$$

Determine whether each is rational. If so, why?

9 rational, counting, whole, integer

$\sqrt{36}$ rational, perfect square

0 rational whole, integer

0.767676... Rational, repeating

0.2222... rational repeating

0.123 Rational, terminal

0.453453 Rational terminal

π irrational

-7 Rational integer

$\frac{3}{5}$ Rational fraction

$\sqrt{48}$ irrational

$$8a^2 - (2b^3 + 6a)$$

$$a=3 \quad b=4$$

$$8(3)^2 - (2(4)^3 + 6(3))$$

$$8(9) - 146$$

$$8(3)^2 - (2(64) + 6(3))$$

$$72 - 146$$

$$8(3)^2 - (128 + 18)$$

$$\boxed{-74}$$

$$8(3)^2 - (146)$$

$$8(9) - 146$$

$$2(m - n^2) - 6(n^2 + 3m)$$

"simplify"

$$2m - 2n^2 - 6n^2 - 18m$$

$$2m - 18m$$

$$-16m - 8n^2$$

$$\frac{F}{RT} = \frac{ART}{RT}$$

$$\frac{F}{RT} = \frac{\cancel{A}RT}{\cancel{RT}} \quad \boxed{A = \frac{F}{RT}}$$

$$\frac{PV}{nT} = \frac{nRT}{nT}$$

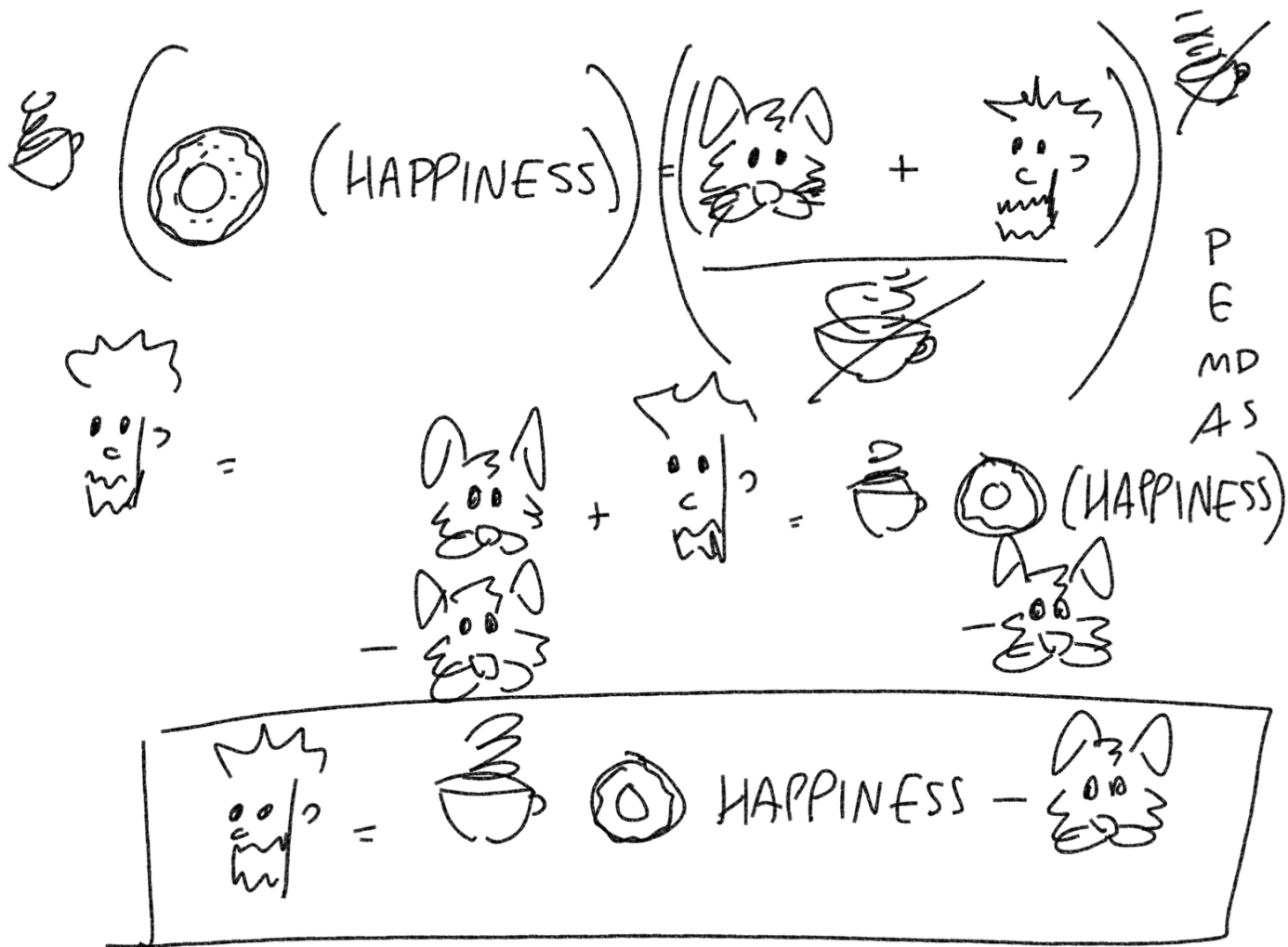
$$\boxed{R = \frac{PV}{nT}}$$

$$\frac{A}{\pi} = \frac{\pi r^2}{\pi}$$

$$\sqrt{r^2} = \sqrt{\frac{A}{\pi}}$$

$$r = \pm \sqrt{\frac{A}{\pi}}$$

↑
P
E
MD
AS



$$\begin{array}{r}
 3m - n = 2m + n \quad m = \\
 -2m \quad \quad -2m
 \end{array}$$

$$\begin{array}{r}
 m - n = n \\
 +n \quad +n
 \end{array}$$

$m = 2n$

$$\begin{array}{r}
 2(u + 3v) = w - 5u \quad u = \\
 2u + 6v = w - 5u \\
 +5u \quad \quad +5u
 \end{array}$$

$$\begin{array}{r}
 7u + 6v = w \\
 -6v \quad -6v
 \end{array}$$

$u = \frac{w - 6v}{7}$

$$ax + b = cx + d \quad x =$$

$$\begin{array}{r} -cx \\ -cx \end{array}$$

$$ax - cx + b = d$$

$$\begin{array}{r} -b \\ -b \end{array}$$

$$x = \frac{d-b}{a-c}$$

$$\left\{ \begin{array}{l} ax - cx = d - b \\ x(a-c) = \frac{d-b}{a-c} \end{array} \right\}$$

$$\frac{1}{1} \left(\frac{2}{3}f + \frac{5}{12}g \right) = (3 - fg)^{12} \quad f =$$

$$\frac{24}{3}f + \frac{60}{12}g = 36 - 12fg$$

$$\begin{array}{r} 8f + 5g = 36 - 12fg \\ +12fg \quad -5g \qquad \qquad +12fg \quad -5g \end{array}$$

$$8f + 12fg = 36 - 5g$$

$$\frac{f(8 + 12g)}{8 + 12g} = \frac{36 - 5g}{8 + 12g}$$

$$f = \frac{36 - 5g}{8 + 12g}$$

$$\frac{x+a}{b} \times \frac{4}{5}$$

$$x =$$

$$5(x+a) = 4b$$

$$5x + 5a = 4b$$

