Review for Test on 8/30/2024

1) $\sqrt[3]{\frac{343}{125}} = \frac{\sqrt[3]{343}}{\sqrt[3]{125}} = \frac{7}{5}$

2) $\sqrt[3]{\frac{27}{64}} = \frac{\sqrt[3]{27}}{\sqrt[3]{64}} = \frac{3}{4}$

3) Complete the following

Solve $3 = y + 15$

$-15 \quad -15$

$-12 = y$

What property was used to solve?

Ans: Subtraction

4) Solve the equation

$\frac{-x}{5} = \frac{-11}{1}$

$\rightarrow x = -55$

What property was used to solve?

Ans: Multiplication

5) Solve:

$$\frac{-6}{1} = \frac{(x+7)}{-5}$$

$$30 = x + 7$$

$$-7 \qquad -7$$

$$23 = x$$

6) Solve:

$$\frac{15}{1} = \frac{(2x-3)}{2}$$

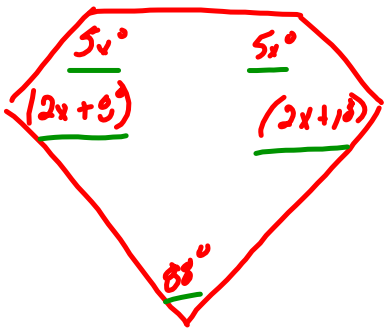
$$30 = 2x - 3$$

$$+3 \qquad +3$$

$$\frac{33}{2} = \frac{2x}{2}$$

$$\frac{33}{2} = x$$

7)



$540^\circ = 5x^\circ + 5x^\circ + (2x+8)^\circ + (2x+10)^\circ + 88^\circ$

$540 = 14x + 106$

$-106 \qquad -106$

$434 = 14x$

$\frac{434}{14} \qquad \frac{14x}{14}$

$31 = x$

8) Solve:

$7-(3x+1)=21$

$7-3x-1=21$

$-3x+6=21$

$-6 \quad -6$

$-3x=15$

$\frac{-3x}{-3}=\frac{15}{-3}$

$x=-5$

9) $6-(4d-2)=7$

$6-4d+2=7$

$-4d+8=7$

$-8 \quad -8$

$-4d=-1$

$\frac{-4d}{-4}=\frac{-1}{-4}$

$d=\frac{1}{4}$

Aug 29-10:29 AM

10) 6'6" you 4' Shadow

X Lamppost 16' Lamppost Shadow

$$\frac{78''}{x''} = \frac{48''}{192''}$$

$$\frac{14{,}976''}{48''} = \frac{48x''}{48''}$$

$312'' = x$

$26' = x$