2.

UNIT 3 ASSESSMENT REVIEW PreAP SOLVING EQUATIONS

Solve the following equations. Check your work with a calculator.

1.
$$y+2$$
 $y-4$ $y-4$ $y+2$ $y-4$ $y+2$ $y-4$ $y+10 = 6y +12$ $y+10 = 10y +12$

3.
$$\frac{3}{4}(8x-16) = \frac{1}{5}(40-10x)$$

$$\frac{6x-12+80-2}{12}$$

$$\frac{1}{4}(8x-16) = \frac{1}{5}(40-10x)$$

$$\frac{1}{5}(40-10x)$$

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$$\frac{1}{5}(40-10x)$$

5.
$$5(3x-4)-3.5=7x-2.5$$

 $15x-20-3.5=7x-2.5$
 $15x-23.5=7x-2.5$
 $15x-23.5=7x-2.5$
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 $15x-23.5=7x-2.5$
 $15x-23.5=7x-2.5$

$$3x - (2x - 5) = -2x + 9 - 4x$$

$$3x - 2x - 5 = -2x + 9 - 4x$$

$$x - 5 = -2x + 9 - 4x$$

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$$x - 5$$

4.
$$-3(3-x)+4(x-2)=8x-5$$

 $-9+3\times+4\times-8=8\times-5$
 $-12+3\times$

6.
$$\frac{3}{5}x+7=10$$
 $\frac{3}{5}x=3$
 $\frac{3}{5}x=3$
 $\frac{3}{5}x=3$
 $\frac{3}{5}x=3$
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Tell what was performed for each step

- 7. Step 1:
- 6m + 8 = m + 23
- step 1: 3Ubtract m from each side

- Step 2:
- 5m + 8 = 23
- step 2: Subfreet & from Losh Sixes

- Step 3:
- 5m = 15
- step 3: Divede both Sides by 5

- Step 4:
- m = 5
- step 4: <u>Cysu</u>e

Simplify:

8.
$$\frac{2}{3}(6x-9y) + \frac{3}{4}(-8x+4y)$$

$$4x - 6y - 6x + 3y$$

$$-2x - 3y$$

9.
$$AxABy=C$$
, Solve for y
$$AxABy=C - Ax$$

$$By=C-Ax$$

$$Y=C-Ax$$

$$By=C-Ax$$

10. If
$$(x, -5)$$
 is a solution to $3x + 4y = -29$,

What is the value of x ? $3x + 4(-5) = -29$

$$3x - 20 = -39$$

$$+ 30$$

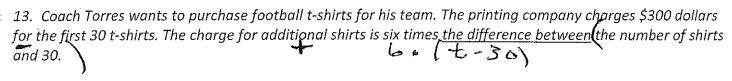
$$3x = 3$$

$$1x = -3$$

- 11. Olivia purchases a DVD movie priced at x dollars. The sales tax is 6.5%
 - a. Write an expression to represent the total cost of the movie.

b. If the movie is priced at \$21.99, what is the total price of the movie, including tax?

12. A model airplane files 18 feet in 2 seconds. How many feet does it fly in one hour?



- a. Write an equation that Coach Torres can use to determine t, the number of shirts he can buy if he spends c dollars. C=300+6(t-30)
- b. If Coach Torres has \$660 in his budget, how many t-shirts can he buy? C = 660

CUT

14. In a triangle, the second angle is 15° more than the first and the third is 24° more than the second. Find the measure of all three angles.

2.X+ 15 3 (x+15)+24 X+39

