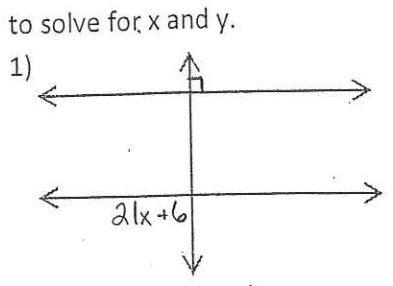


Section 3.2 Review

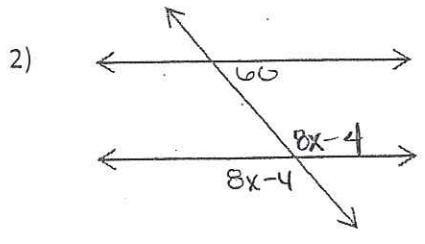
For each of the following use what we know about vertical angles, linear pairs, and our new properties with parallel lines to solve for x and y.



$$2x + 0 = 90$$

$$2x = 84$$

$$\boxed{x = 42}$$

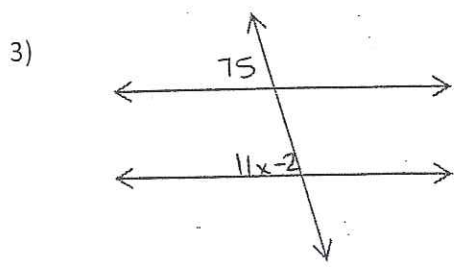


$$60 + 8x - 4 = 180$$

$$56 + 8x = 180$$

$$8x = 124$$

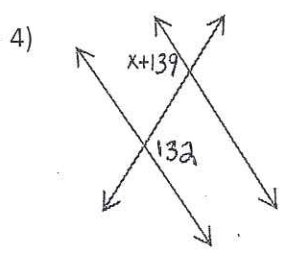
$$\boxed{x = 15.5}$$



$$11x - 2 = 75$$

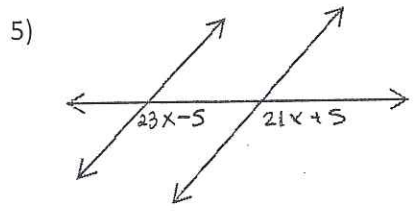
$$11x = 77$$

$$\boxed{x = 7}$$



$$x + 139 = 132$$

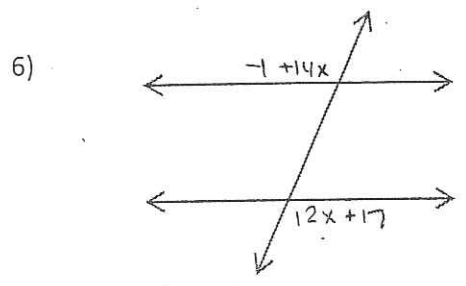
$$\boxed{x = -7}$$



$$23x - 5 = 21x + 5$$

$$2x = 10$$

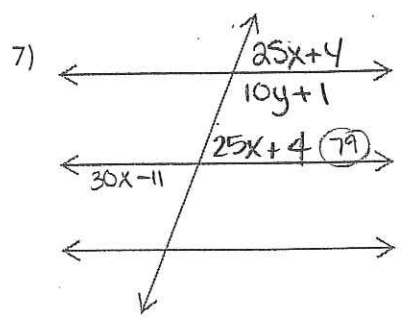
$$\boxed{x = 5}$$



$$12x + 17 = -1 + 14x$$

$$18 = 2x$$

$$\boxed{9 = x}$$



$$25x + 4 = 30x - 11$$

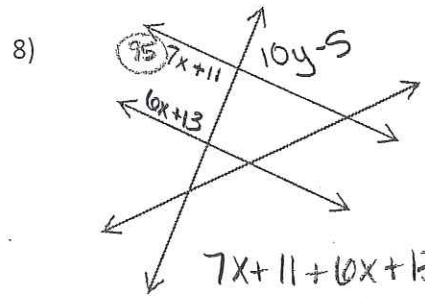
$$15 = 5x$$

$$\boxed{3 = x}$$

$$79 + 10y + 1 = 180$$

$$10y = 100$$

$$\boxed{y = 10}$$



$$7x + 11 + 10x + 13 = 180$$

$$13x + 24 = 180$$

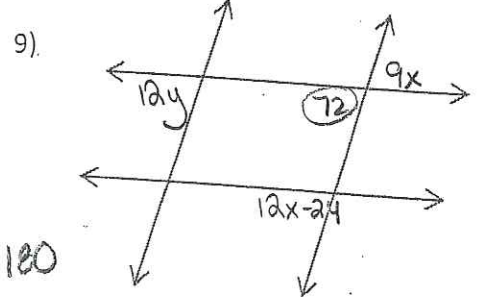
$$13x = 156$$

$$\boxed{x = 12}$$

$$95 = 10y - 5$$

$$100 = 10y$$

$$\boxed{10 = y}$$



$$9x = 12x - 24$$

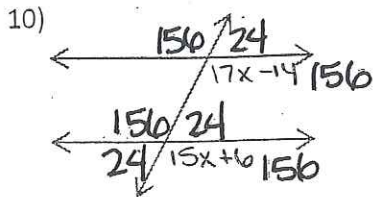
$$-3x = -24$$

$$\boxed{x = 8}$$

$$12y = 72$$

$$\boxed{y = 6}$$

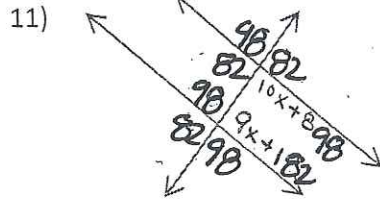
For each of the following use what we know about vertical angles, linear pairs, and our new properties with parallel lines to solve for x. Once you know x also solve for all the angles in the image!!!



$$17x - 14 = 15x + 6$$

$$2x = 20$$

$$\boxed{X = 10}$$

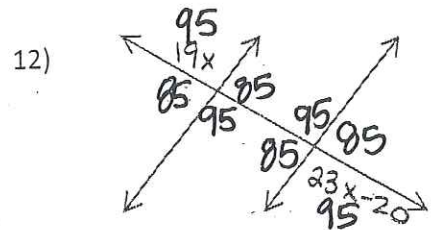


$$10x + 8 + 9x + 1 = 180$$

$$19x + 9 = 180$$

$$19x = 171$$

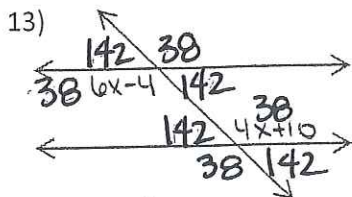
$$\boxed{X = 9}$$



$$23x - 20 = 19x$$

$$-20 = -4x$$

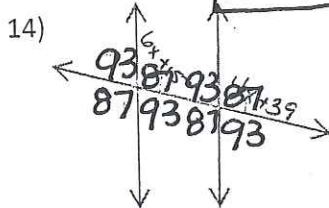
$$\boxed{5 = X}$$



$$6x - 4 = 4x + 10$$

$$2x = 14$$

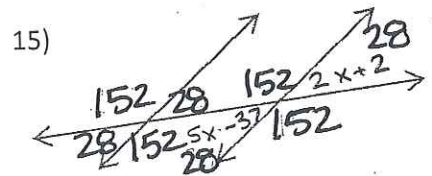
$$\boxed{X = 7}$$



$$6x + 15 = 4x + 39$$

$$2x = 24$$

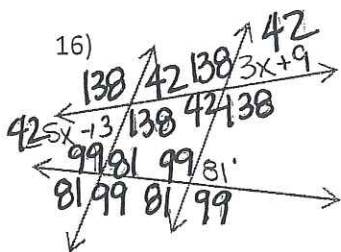
$$\boxed{X = 12}$$



$$5x - 37 = 2x + 2$$

$$3x = 39$$

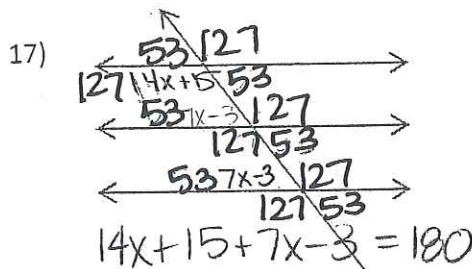
$$\boxed{X = 13}$$



$$5x - 13 = 3x + 9$$

$$2x = 22$$

$$\boxed{X = 11}$$

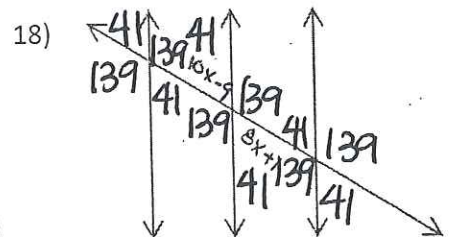


$$14x + 15 + 7x - 3 = 180$$

$$21x + 12 = 180$$

$$21x = 168$$

$$\boxed{X = 8}$$



$$10x - 9 = 8x + 1$$

$$2x = 10$$

$$\boxed{X = 5}$$