

August 19, 2015
 * SSC #1 - One Friday
 * Quiz #1 - Friday
 * Prep Handout

Aug 19-10:16 AM

#23) $\frac{42}{6x} + \frac{42}{7x}$ LCD: $42x$

$$\frac{42(7) + 42(6)}{42x} = \frac{294 + 252}{42x}$$

$$= \frac{546}{42x}$$

$$= \frac{273}{21x}$$

$$= \frac{91}{7x}$$

$$= \frac{13}{x}$$

$$= \frac{13}{1} \cdot \frac{1}{x}$$

Aug 19-10:20 AM

$$\frac{42}{x} + \frac{42}{x} = \frac{42+42}{x}$$

$$= \frac{84}{x}$$

Aug 19-10:21 AM

#24) LCD: $8(x+8)$

$$\frac{6}{x+8} + \frac{9}{8x+64} \rightarrow \text{Factor } 8(x+8)$$

$$\frac{48 + 9}{8(x+8)} = \frac{57}{8(x+8)}$$

$$\frac{6 \rightarrow 8}{x+8} \cdot \frac{8}{8} = \frac{48}{8(x+8)}$$

Aug 19-10:26 AM

#2 $(-1) \cdot b + (-1) \cdot a$

$$(-1)(b+a) = (-1)(b+a)$$

or

$$= -(b+a)$$

Distributive Property

$$a(b+c) = ab + ac$$

$$(-1)(b+a) \quad (-1) \cdot (b) \quad (-1) \cdot (a)$$

Aug 19-10:32 AM

#4) $3x + 6(2x-3) = 4 - 7x$

$$(3x + 12x) - 18 = 4 - 7x$$

$$15x - 18 = 4 - 7x$$

$$+ 7x \quad + 18 \quad + 7x \quad + 18$$

$$\frac{22x}{22} = \frac{22}{22}$$

$$x = 1$$

ch

$$3(1) + 6(2(1)-3) = 4 - 7(1)$$

$$3 + 6(-1) = 4 - 7$$

$$3 - 6 = -3$$

$$-3 = -3 \checkmark$$

Aug 19-10:41 AM

$$\frac{(x^2)^4}{(3x)^3} = \frac{x^8}{27x^3} = \frac{x^5}{27}$$

Aug 19-10:52 AM