

April 25, 2016

#3) $56a(2a-1) - 21(2a-1)$
 $(2a-1)(56a-21)$
not f.p.!
 $(2a-1)7(8a-3)$
 $7(2a-1)(8a-3)$

Apr 25-9:57 AM

#11) $4w^2 - 16$ $a=2w$ $b=4$
 $(2w+4)(2w-4)$
not f.p.
 $4(w^2 - 4)$
 $4(w+2)(w-2)$
 $2(w+2)2(w-2)$
 $4(w+2)(w-2)$

Apr 25-10:06 AM

#12) $27x^3 + 125$ $a=3x$ $b=5$
 $(a+b)(a^2 - ab + b^2)$
 $(3x+5)(9x^2 - 15x + 25)$

Apr 25-10:10 AM

#13) $2x^2 = 13x - 20$
 $2x^2 - 13x + 20 = 0$
 $ac = 40$ $b = -13$
 $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
 $(x-4)(2x-5) = 0$
 ① $x = 4$
 ② $x = \frac{5}{2}$

Apr 25-10:11 AM

#16) $25x^2 = 36$
 ① $25x^2 - 36 = 0$
 ② $(5x+6)(5x-6) = 0$
 ③ $① x = -6/5$ $② x = 6/5$

Apr 25-10:15 AM

#17) $\frac{6v^{-9}}{-8v^{-4}} = \frac{3v^5}{-4v^5} = -\frac{3}{4v^5}$
 ① $\frac{a^{-m}}{1} = \frac{1}{a^m}$
 ② $\frac{1}{a^{-m}} = \frac{a^m}{1}$
 or $\frac{v^{-9}}{v^{-4}} = v^{-9-(-4)}$
 $= v^{-9+4}$
 $= v^{-5}$
 $= \frac{1}{v^5}$

Apr 25-10:16 AM

#18)

$$\frac{x-3}{x+5} \cdot \frac{2x+10}{x^2-9}$$

$$\frac{\cancel{x-3}}{\cancel{x+5}} \cdot \frac{2(\cancel{x+5})}{(x+3)(\cancel{x-3})} = \frac{2}{x+3}$$

Apr 25-10:22 AM

#19)

$$\frac{5x^2+4x}{x-1} \cdot \frac{6x+3}{x-1}$$

$$\frac{5x^2+4x-(6x+3)}{x-1}$$

$$\frac{5x^2+4x-6x-3}{x-1}$$

$$\frac{5x^2-2x-3}{x-1}$$

$$\frac{(x-1)(5x+3)}{\cancel{(x-1)}}$$

$$5x+3$$

$ac = -15 \quad b = -2$
 $\frac{-1 \pm \sqrt{1+60}}{5}$
 $5x^2 - 5x + 3x - 3$
 $5x(x-1) + 3(x-1)$
 $(x-1)(5x+3)$

Apr 25-10:25 AM

#20)

$$\frac{3}{10v} - \frac{4}{5v} \quad \text{LCD: } 10v$$

$$\frac{3 - 8}{10v}$$

$$\frac{-5}{10v} = -\frac{1}{2v}$$

Apr 25-10:32 AM

Final Exam

- * May 2
- * 10:20 - 12:20
- * Everything

Apr 25-10:45 AM