

April 25, 2016

#3) $56a(2a-1) - 21(2a-1)$
 $(2a-1)(56a-21)$
Not A.P.!
 $(2a-1) \cdot 7(8a-3)$
 $7(2a-1)(8a-3)$

Apr 25-9:02 AM

#1) $4w^2 - 16$ $a = 2w$ $b = 4$
 $(2w+4)(2w-4)$ $4(w^2-4)$
Not A.P.! $a=w$
 $b=2$
 $2(w+2) \cdot 2(w-2)$
 $4(w+2)(w-2)$

Apr 25-9:07 AM

#12) $1 - x^2$ $a = 1$ $b = x$
 $(1+x)(1-x)$
 $(x+1)(x-1)$
 $x^2 - x + x - 1$
 $x^2 - 1 \neq 1 - x^2$

Apr 25-9:09 AM

#13) $27x^3 + 125$ $a = 3x$ $b = 5$
 $(3x+5)(9x^2 - 15x + 25)$

Apr 25-9:10 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 25-9:13 AM

#17) $\frac{6v^{-9}}{-8v^{-4}} = \frac{3v^{-5}}{-4v^{-5}}$
 $= -\frac{3}{4v^0}$
 $= -\frac{3}{4}$

Apr 25-9:15 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 25-9:19 AM

#19)

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

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

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

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

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

$$\boxed{5x+3}$$

$ac = -15$ $b = -2$
 $\frac{-1 \pm 4}{2}$
 $5x^2 - 5x + 3x - 3$
 $5x(x-1) + 3(x-1)$
 $(x-1)(5x+3)$

Apr 25-9:21 AM