

POD: 9-30-13

$$\begin{array}{r} 15 \\ \wedge \\ 3 \cdot 5 \end{array} / \begin{array}{r} 20 \\ \wedge \\ 4 \cdot 5 \\ \wedge \\ 2 \cdot 2 \end{array}$$

Factor using the GCF : $\frac{5a^3}{5a} + \frac{15a^2}{5a} + \frac{20a}{5a}$

$5a^3 \rightarrow 5 \cdot a \cdot a \cdot a$

$15a^2 \rightarrow 3 \cdot 5 \cdot a \cdot a$

$20a \rightarrow 2 \cdot 2 \cdot 5 \cdot a$

\downarrow
 $5a(a^2 + 3a + 4)$

GCF: $5a$

Answer: $5a(a^2 + 3a + 4)$



GCF & Factoring: Factor each problem

1. $6x^4 + 18x^2$

1. $6x^2(x^2 + 3)$

2. $14y^3 + 7y$

2. $7y(2y^2 + 1)$

3. $4b^5 + 12b^3$

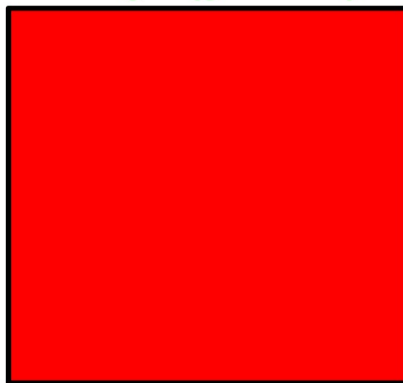
3. $4b^3(b^2 + 3)$

4. $5(2a^3 + 1)$

4. $10a^3 + 5$

5. $2y^2(y + 4)$

5. $2y^3 + 8y^2$



Notes: Multiplying Binomials

1. $(2x + 4)(3x - 7)$

top *Side*

Box Method

	$2x$	4	
$3x$	$6x^2$	$12x$	$-14x + 12x$
-7	$-14x$	-28	

$$6x^2 - 2x - 28$$

Double Distribution

$$(2x + 4)(3x - 7)$$
$$2x(3x - 7) + 4(3x - 7)$$
$$6x^2 - 14x + 12x - 28$$
$$6x^2 - 2x - 28$$

1. $(x - 3)(4x - 5)$

2. $(x^3 - 6)(4x + 3)$

3. $(3x^2 + 1)(x^3 + 4)$

4. $(2x^2 + 2)(x^2 + 3)$

Quiz

$$\textcircled{1} (a+8)(a-2)$$

$$\textcircled{2} (x+4)(4x-5)$$

$$\textcircled{3} (k-6)(k+6)$$

$$\textcircled{4} (b-3)(b-9)$$

$$\textcircled{5} (5m-2)(m+3)$$

$$\textcircled{6} (9z+4)(9z-3)$$

$$\textcircled{7} (3h+2)(6h-5)$$

Matho: Copy these answers down randomly

TOD:

List ...

3 facts that we discussed today

2 things that you do not understand

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