

$$\boxed{x^2} + 6x + \boxed{9}$$

$$(x+3)(x+3) \quad \begin{matrix} 9 \\ 3 \quad \wedge \quad 3 \end{matrix}$$

$$(x+3)^2$$

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$$\boxed{4x^2} + 20x + \boxed{25}$$

$$\boxed{(2x+5)^2}$$

$$(2x+5)(2x+5) \quad \begin{matrix} 100 \\ \overline{\underline{\text{5} \quad \text{10} \quad \text{5} \quad \text{10}}} \\ \text{2x} \quad \text{4x} \quad \text{2x} \quad \text{4x} \end{matrix}$$

$$\boxed{-\frac{5}{2}}$$

Root
zero
Solution
intercept

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad b^2 - 4ac$$

29 Q

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$$4x^2 + 20x + 25$$

$$b^2 - 4ac \quad \frac{-20 \pm \sqrt{0}}{8} = \frac{20 \oplus 0}{8 \oplus 4}$$

a) 4 400 - 4(4)(25)
 b) 20 400 - 400
 c) 25 Q

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$$36x^2 - 24x + 16$$

$$\boxed{4(3x - 2)^2}$$

$$4(9x^2 - 6x + 4)$$

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$$9x^2 - 12x + 4$$

$$(3x - 2)^2$$

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$x^2 - 16$ $(x-4)(x+4)$	$1 - m^6$ $(1 - m^3)(1 + m^3)$
$9b^4 - 200$ Can't factor	$36s^2 - 4t^2$ $(6s - 2t)(6s + 2t)$

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$$x^2y^2 - 196$$

$$(xy - 14)(xy + 14)$$

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p396

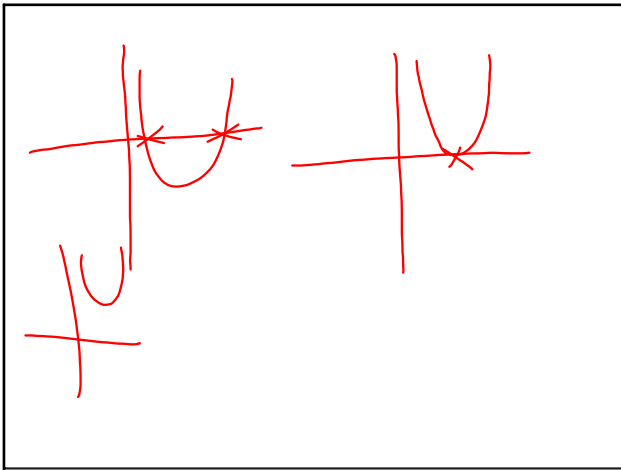
1) $16x^2 + 8x + 1 \text{ ft}^2$



$4(4x+1) = 16x+4$ $16(2)+4 = 36 \text{ft}$

$x=2$

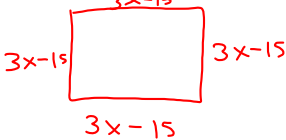
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2. $9x^2 - 90x + 225$

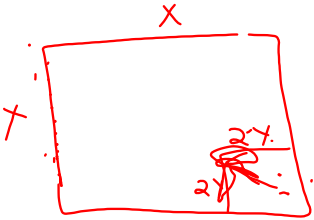


$4(3x-15)$
 $12x-60$
 $x=25$
 $12(25)-60$
 240 Cm

25
x12
50
25
300

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3.



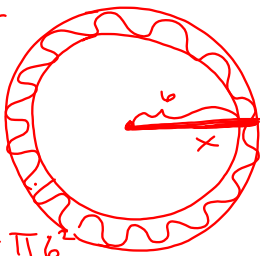
$x^2 - 4y^2$
 $(x-2y)(x+2y)$

$$x^2 - 2xy - 2xy + 4y^2$$

$$x^2 - 4xy + 4y^2$$

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Area of O



πr^2

$$\pi x^2 - \pi 6^2$$

$$\pi x^2 - 36\pi$$

$$\pi(x^2 - 36)$$

$$\pi(x-6)(x+6)$$

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$x^2 - 4(16)$
 $x^2 - 64$
 $(x-8)(x+8)$

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① $6(s^2 - 12)$
 ② $5(m^2 + 9m)$
 $5m(m+9)$
 ③ $2p(p^4 - 9)$
 $2p(p^2 - 3)(p^2 + 3)$
 4 $(x - 8y)(2x + 3y)$
 5 $3k^3(5jk^2 + 19j)$
 $3jk^3(5k^2 + 19)$

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$7(14g^4 - 4g + 10)$
 $14(7g^4 - 2g + 5) \quad 35$

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① $24xy^2 + 40y$
 $8y(3xy + 5)$

 ⑧ $5r^3 - 10rs$
 $5r(r^2 - 2s)$

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9. $3x^3y + x^2y^2$
 $x^2y(3x + y)$
 10 $-3a^2b + 12ab - 12b$
 $-3b(a^2 + 4a + 4)$
 $-3b(a+2)^2$

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11 $5t^3 - 45ts^2 + 3t^2 - 27s^2$
 $(5t^3 - 45ts^2)(+3t^2 - 27s^2)$
 $5t(t^2 - 9s^2) + 3(t^2 - 9s^2)$
 $(5t + 3)(t^2 - 9s^2)$
 $(5t + 3)(t - 3s)(t + 3s)$

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$$\begin{aligned}
 &12 \quad 2y^2 - 6xy - 56x^2 \\
 &2(y^2 - 3xy - 28x^2) \quad \begin{array}{c} -28x^2 \\ \wedge \\ -7x \quad 4x \end{array} \\
 &2(y-7x)(y+4x)
 \end{aligned}$$

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$$\begin{aligned}
 &13) \quad 6a^3 + 39a^2 + 45a \\
 &3a(2a^2 + 13a + 15) \quad \begin{array}{c} 30 \\ \wedge \\ 5 \quad 3 \\ \hline 9 \quad 2a \quad 2a \end{array} \\
 &3a(a+5)(2a+3) \\
 &14) \quad x^3y - 9xy^3 \\
 &xy(x^2 - 9y^2) \\
 &\boxed{xy(x-3y)(x+3y)}
 \end{aligned}$$

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$$\begin{aligned}
 &16) \quad 3c^4 + 24c^3d + 48c^2d^2 \\
 &3c^2(c^2 + 8cd + 16d^2) \\
 &\boxed{3c^2(c+4d)^2}
 \end{aligned}$$

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$$\begin{aligned}
 &17) \quad 3cd^3 + 4d - 2c \\
 &\boxed{\text{SKIP}} \\
 &18) \quad \begin{array}{l} 10w^6 - 160w^2v^4 \\ 10w^2(w^4 - 16v^4) \\ 10w^2(w^2 - 4v^2)(w^2 + 4v^2) \end{array}
 \end{aligned}$$

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