

opposite
 \sphericalangle
 are
 Supplementary.

$85 + x = 180$
 $x = 95^\circ$
 $75 + y = 180$
 $y = 105^\circ$

$m\widehat{ABC} = 2(95) = 190^\circ$

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$112 + x = 180$
 $x = 68^\circ$

$y + y = 180$
 $2y = 180$
 $y = 90$

$m\widehat{GHE} = 2(90) = 180^\circ$

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③

$7x + 131 = 180$
 $-131 -131$
 $7x = 49$
 $\frac{49}{7}$
 $x = 7$

$7(7) = 49$

$1(7) + y + 99 = 180$
 $77 + y + 99 = 180$
 $176 + y = 180$
 $-176 -176$
 $y = 4$

$m\widehat{JKL} = 2(131) = 262^\circ$

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1	3
2	2
3	3
4	1
5	1
6	1
	11

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$\frac{107}{+83}$
 $\hline 190$
 $\frac{95}{2)190}$

$x = 95^\circ$
 $y = 180 - 95 = 85^\circ$

ADD ARCS
 \div By 2

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$m\widehat{AB} = 85$
 Central \sphericalangle

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$74 - 2a = 52$
 $\frac{26}{2} \overline{)52}$
 $x = 26$

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$\frac{74-x}{2} = 26$
 $74-x = 52$
 $-x = -22$
 $x = 22$

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$2\left(\frac{x-87}{2}\right) = (61)^2$
 $x - 87 = 122$
 $+87 + 87$
 $x = 209$

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P699 #17
 $9a^2 - 30 = 3a$
 $9a^2 - 3a - 30 = 0$
 $3(3a^2 - a - 10) = 0$
 -30
 $-6 \quad 5$
 $3(3a^2 - 6a + 5a - 10) = 0$
 $(3a^2 - 6a)(5a - 10) = 0$
 $3a(a-2) + 5(a-2) = 0$
 $(3a+5)(a-2) = 0$
 $-\frac{5}{3} \quad 2$

Zero Product Property

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$2c^2 + 9c + 6$
 $9c + 14$

$2c^2 + 9c + 6 = 9c + 14$
 $2c^2 = 8$
 $\frac{2c^2}{2} = \frac{8}{2}$
 $c^2 = 4$
 $c = \pm 2$
 $c = 2$

Square Root Principle

$2c^2 + 6 = 14$
 $2c^2 - 8 = 0$
 $2(c^2 - 4) = 0$
 $2(c-2)(c+2) = 0$
 $2, -2$

factored

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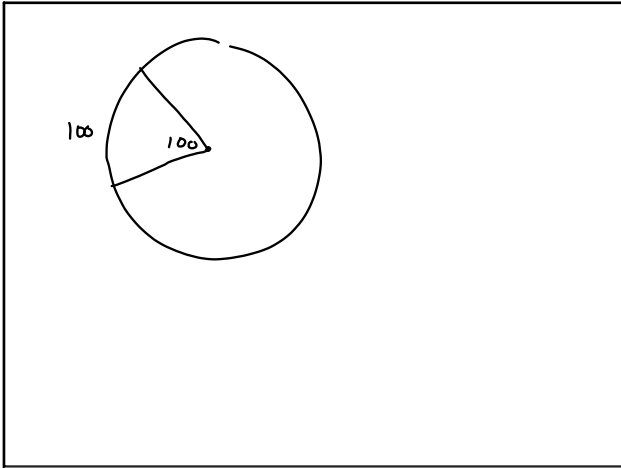
$a^2 + b^2 = c^2$
 $9^2 + r^2 = (3+r)^2$
 $81 + r^2 = 9 + 6r + 9$
 $81 = 6r + 18$
 $72 = 6r$
 $12 = r$

Theorem #19

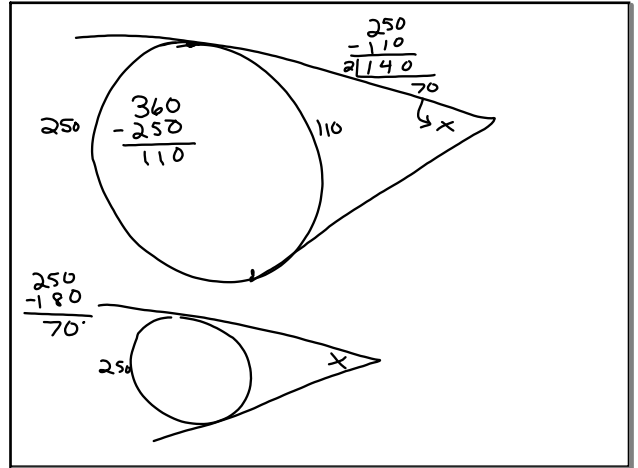
$3(3+r+r) = 9^2$
 $3(3+2r) = 81$
 $9+6r = 81$
 $6r = 72$
 $r = 12$

Pythagorean

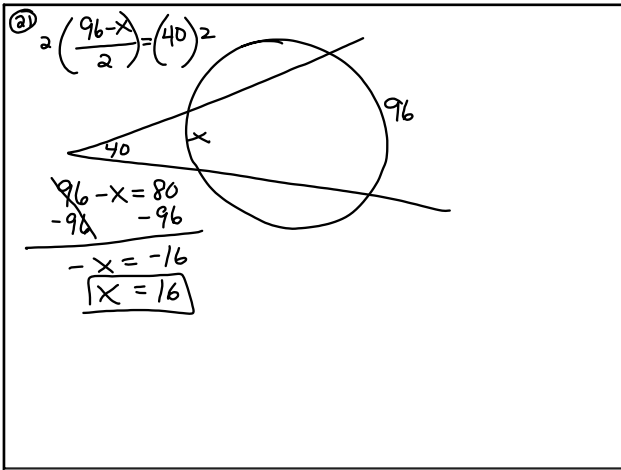
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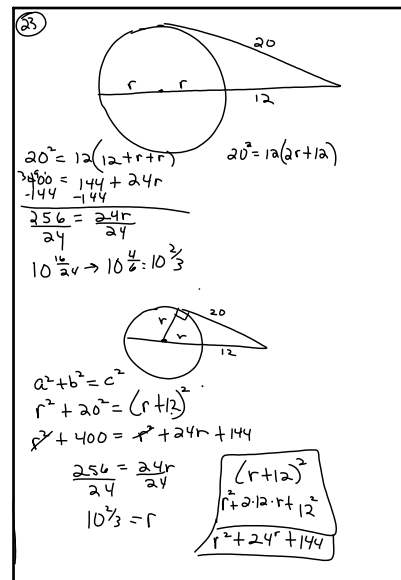
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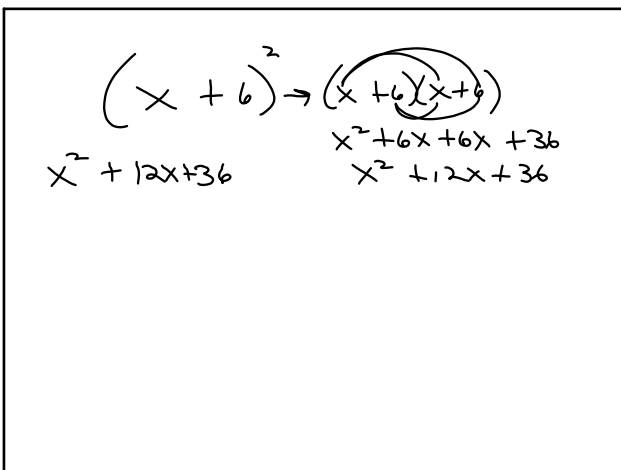
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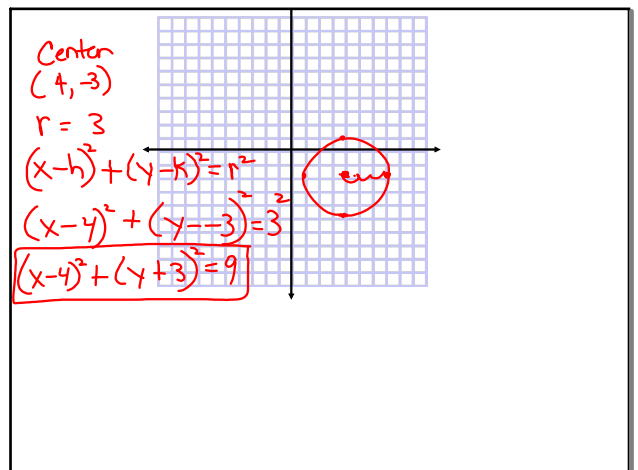
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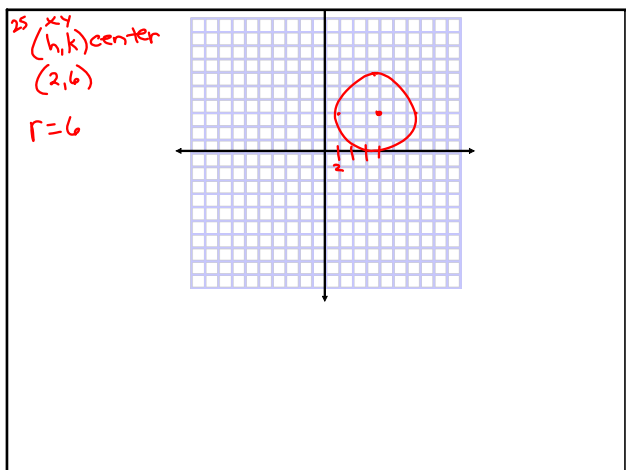
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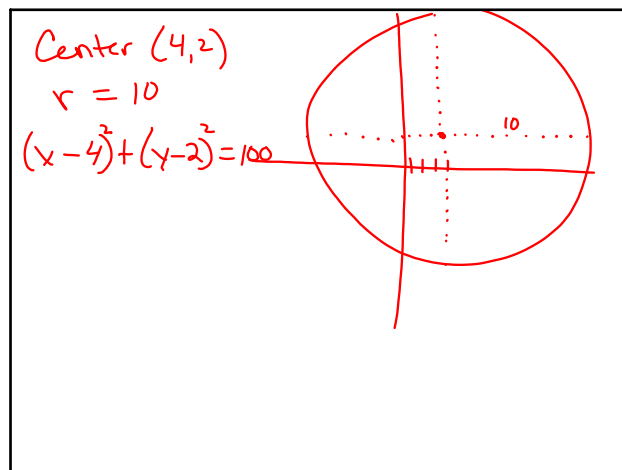
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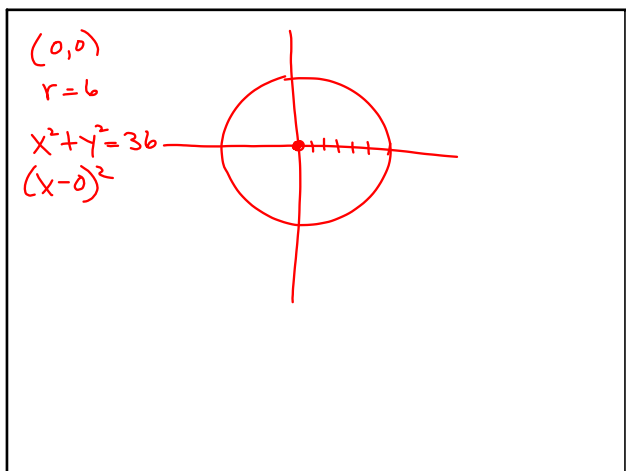
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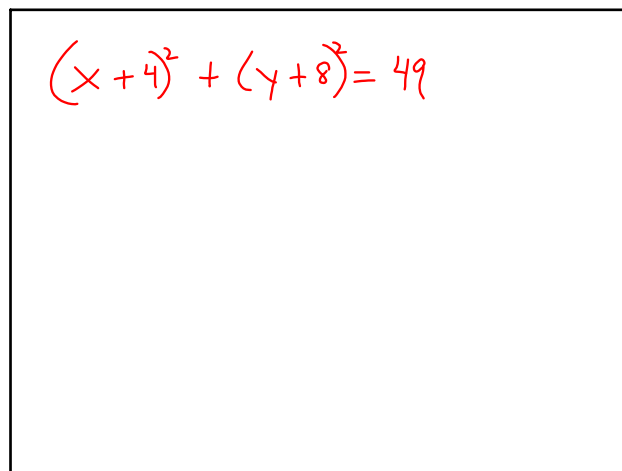
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