

CHECK ANSWERS
Ch.6 #12-16, 19-22

#13→explain and find examples

#12 and #14

3 5 6 8 10 13 14
 25 30 39 40 48 5000

6.5 or $\frac{13}{2}$ $\frac{13\sqrt{3}}{2}$ $3\sqrt{2}$ $3\sqrt{2}$

$4\sqrt{3}$ $6\sqrt{3}$ $7\sqrt{3}$ $25\sqrt{2}$

#15 and #16

x 5x 13x $x\sqrt{2}$ $\frac{x\sqrt{3}}{2}$ $\frac{x}{2}$

$y\sqrt{3}$ 2y 28 30 30 54

$24 + 6\sqrt{2} \approx 32.5$

$36 + 9\sqrt{3} \approx 51.6$

#19-22

-1 $\frac{3}{2}$ 2 10 15 16 24

-15x $3m^8$ $10\sqrt{3}$ $15\sqrt{2}$

$64p^6q^3$ $-2 \pm 3i$ $8 + i\sqrt{3}$ $11 - 5i$

Use these diagrams to help you solve #16

