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14) 
$$(5\sqrt{6})^2 - (\sqrt{7})^2$$
 $25 \cdot 6 - 7 = 143$ 
 $15) (\sqrt{15} - 12\sqrt{3}) (\sqrt{5} - 12\sqrt{3})$ 
 $5 - 12\sqrt{15} - 12\sqrt{15} + 144 \cdot 3$ 
 $437 - 24\sqrt{15}$ 
 $16) \frac{100}{4\sqrt{5}} = \frac{25}{\sqrt{5}} \frac{\sqrt{5}}{\sqrt{5}} = \frac{26\sqrt{5}}{3}$ 
 $18) \frac{24 \times 4 \times 5}{36 \times 7 \times 10^{3}} = \frac{8 \times 3}{\sqrt{6} \times 10^{3}} = \frac{8 \times 3}{3} \times \frac{1}{3} \times$ 

26) 
$$y=-x^2=2x+8$$
 $x=\frac{2}{2(-1)}=-1$ 
 $y=-(-1)^2-2(-1)+8$ 
 $y=-1+2+8$ 
 $y=-9$ 
 $V=(-1,9)$ 

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