1) $A = \sqrt{630} \times \sqrt{770} = \sqrt{3\times3\times7\times2\times5\times7\times11\times2\times5}$

$= \sqrt{3\times3\times2\times2\times5\times5\times7\times7\times11} = 3\times2\times5\times7\sqrt{11} = \boxed{210\sqrt{11}}$

2) $B = \dfrac{\sqrt{27000}}{\sqrt{1470}} = \sqrt{\dfrac{3\times3\times3\times10\times10\times10}{3\times7\times7\times10}} = \sqrt{\dfrac{3\times3\times10\times10}{7\times7}} = \dfrac{3\times10}{7} = \boxed{\dfrac{30}{7}}$

3) $C = \dfrac{\sqrt{243}}{\sqrt{36}\times\sqrt{324}} = \sqrt{\dfrac{3\times3\times3\times3\times3}{2\times3\times2\times3\times2\times2\times3\times3\times3\times3}} = \sqrt{\dfrac{1}{2\times2\times2\times2\times3}} = \dfrac{1}{2\times2\times\sqrt{3}}$

$= \boxed{\dfrac{1}{4\sqrt{3}} = \dfrac{\sqrt{3}}{4\sqrt{3}\times\sqrt{3}} = \dfrac{\sqrt{3}}{12}}$

4) $D = (\sqrt{5} - \sqrt{7})^2 = \sqrt{5}^2 - 2\times\sqrt{5}\times\sqrt{7} + \sqrt{7}^2 = 5 - 2\sqrt{35} + 7$

$= \boxed{12 - 2\sqrt{35}}$

5) $E = 2\sqrt{63} + 4\sqrt{112} - 5\sqrt{343} + 8\sqrt{252}$

$= 2\sqrt{3\times3\times7} + 4\sqrt{2\times2\times2\times2\times7} - 5\sqrt{7\times7\times7} + 8\sqrt{2\times2\times3\times3\times7}$

$= 2\times3\sqrt{7} + 4\times2\times2\sqrt{7} - 5\times7\sqrt{7} + 8\times2\times3\sqrt{7}$

$= 6\sqrt{7} + 16\sqrt{7} - 35\sqrt{7} + 48\sqrt{7} = (6 + 16 - 35 + 48)\sqrt{7} = \boxed{35\sqrt{7}}$

6) $F = (\sqrt{5} - \sqrt{2})^2 + (\sqrt{5} - \sqrt{2})(\sqrt{5} + \sqrt{2})$

$= \sqrt{5}^2 - 2\times\sqrt{5}\times\sqrt{2} + \sqrt{2}^2 + \sqrt{5}^2 - \sqrt{2}^2 = 5 - 2\sqrt{10} + 2 + 5 - 2$

$= \boxed{10 - 2\sqrt{10}}$