

(1)  $U = 371.8\text{m}$

(2)  $U = 260.18\text{m}$

(3) a)  $r = \frac{4h^2 + s^2}{8h}$

b)  $r = 20\text{cm}$

(4)  $r = 3.25\text{m}$

(5)  $x = 2\sqrt{2}a$