

$$\textcircled{1} \quad \text{TAN}(54) = \frac{w}{10}$$

$$w = 10 \cdot \text{TAN}(54) = 13.7$$

$$\textcircled{2} \quad \text{TAN}(x) = \frac{100}{41}$$

$$\text{TAN}^{-1}(100/41) = 67.7$$

2nd TAN

$$\textcircled{3} \quad \text{TAN}(k) = \frac{12}{9} = 1.\bar{3}$$

$$\textcircled{4} \quad \text{TAN}(64) = \frac{x}{7} \quad x = 7 \cdot \text{TAN}(64) = 14.3$$

$$\textcircled{5} \quad \text{SIN}(35) = \frac{x}{20}$$

$$x = 20 \cdot \text{SIN}(35) = 11.4$$

$$\textcircled{6} \quad \text{SIN}(x) = \frac{5}{14}$$

$$\text{2nd} \quad \text{SIN}^{-1}(5/14) = 20.9$$

$$\textcircled{7} \quad \text{SIN}(36) = \frac{10}{y}$$

$$y = \frac{10}{\text{SIN}(36)} = 17$$

$$\textcircled{8} \quad \text{SIN}(k) = \frac{4.2}{5.8}$$

$$\text{2nd} \quad \text{SIN}^{-1}(4.2/5.8) = 46.3$$

$$(17) \text{ L.A.} = 30 \cdot 4 = 120$$

$$\text{S.A.} = 120 + \frac{50}{2} = 220$$

$$(18) \text{ L.A.} = 24 \cdot 6 = 144$$

$$\text{S.A.} = 144 + \frac{36}{2} = 216$$

$$(19) \text{ L.A.} = 2\pi(3)(9) = 54\pi$$

$$\text{S.A.} = 54\pi + \frac{9\pi}{2} = 72\pi$$

$$(20) \text{ L.A.} = 2\pi(4)(12) = 96\pi$$

$$\text{S.A.} = 96\pi + 2 \times 16\pi = 128\pi$$

$$(21) \text{ L.A.} = \frac{1}{2}(24)(9) = 108$$

$$\text{S.A.} = 108 + 36 = 144$$

$$(22) \lambda^2 = 12^2 + (2.5)^2$$

$$\lambda = \sqrt{150.25}$$

$$\lambda = 12.26$$

$$\text{L.A.} = \frac{1}{2} 20(12.26) = 122.6$$

$$\text{S.A.} = 122.6 + 25 = 147.6$$

$$\textcircled{23} \quad L.A. = \pi (5) (14) = 70\pi$$
$$S.A. = 70\pi + 25\pi = 95\pi$$

$$\textcircled{24} \quad l^2 = 12^2 + 4^2$$
$$l = \sqrt{160} = 12.6$$

$$L.A. = \pi (4) (12.6) = 49.2\pi$$
$$S.A. = 49.2\pi + 16\pi = 65.2\pi$$