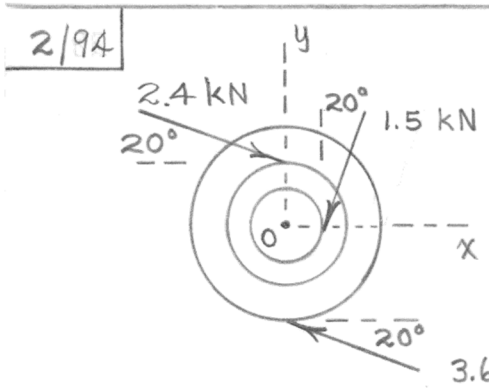
**2/94**




$r_1 = 0.120$ m
$r_2 = 0.200$ m
$r_3 = 0.300$ m

$$\underline{R} = \Sigma \underline{F} = 2.4(c20°\underline{i} - s20°\underline{j}) + 1.5(-s20°\underline{i} - c20°\underline{j}) + 3.6(-c20°\underline{i} + s20°\underline{j}) = -1.641\underline{i} - 0.999\underline{j} \text{ kN}$$

$$\Sigma M_O = (2.4(0.2) + 1.5(0.12) + 3.6(0.3))\cos 20° = 1.635 \text{ kN·m}$$

$$\underline{r} \times \underline{R} = \underline{M}_O: \quad (x\underline{i} + y\underline{j}) \times (-1.641\underline{i} - 0.999\underline{j}) = -1.635$$

$$\Rightarrow -0.999x + 1.641y = -1.635$$

Axis intercepts: $x = 1.637$ m, $y = -0.997$ m