

### Dicot root

- The xylem and phloem bundles are 2 to 6.
- Pith is absent or very small.
- Secondary growth takes place.

### Monocot root

- Xylem and phloem are more than six and varies (polyarch).
- Well-developed pith is present.
- Secondary growth does not take place.

### Secondary growth in dicot stem

- dicotyledonous plants exhibit an increase in girth
- lateral meristems: vascular cambium and cork cambium.

### Secondary Growth in Roots

- vascular cambium is completely secondary in origin
- originates from phloem bundles, a portion of pericycle tissue.