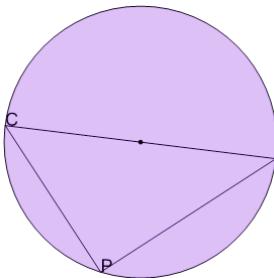


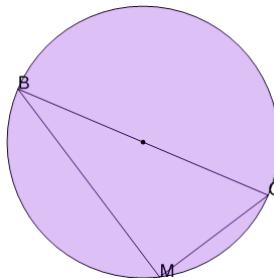


## Geometry of Circles - Inscribed Triangle on Diameter - Missing Angle

**1**

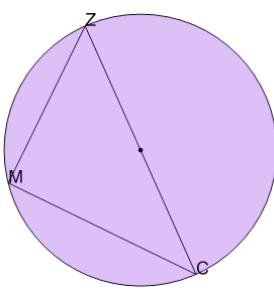
Find angle PDC in degrees given that PCD is  $50^\circ$  and DC forms a diameter

|   |             |   |             |
|---|-------------|---|-------------|
| A | $10^\circ$  | B | $115^\circ$ |
| C | $55^\circ$  | D | $85^\circ$  |
| E | $100^\circ$ | F | $40^\circ$  |

**2**

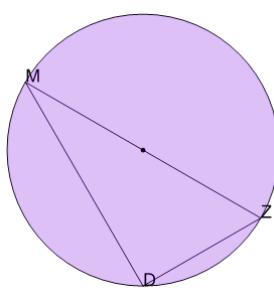
Find angle MCB in degrees given that MBC is  $30^\circ$  and CB forms a diameter

|   |            |   |             |
|---|------------|---|-------------|
| A | $0^\circ$  | B | $60^\circ$  |
| C | $75^\circ$ | D | $150^\circ$ |
| E | $15^\circ$ | F | $135^\circ$ |

**3**

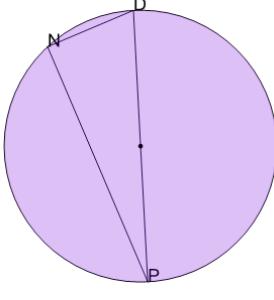
Find angle MCZ in degrees given that MZC is  $50^\circ$  and CZ forms a diameter

|   |             |   |             |
|---|-------------|---|-------------|
| A | $100^\circ$ | B | $130^\circ$ |
| C | $40^\circ$  | D | $20^\circ$  |
| E | $115^\circ$ | F | $35^\circ$  |

**4**

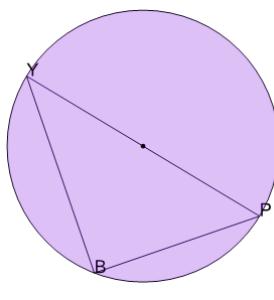
Find angle DZM in degrees given that DMZ is  $30^\circ$  and ZM forms a diameter

|   |            |   |             |
|---|------------|---|-------------|
| A | $45^\circ$ | B | $75^\circ$  |
| C | $60^\circ$ | D | $105^\circ$ |
| E | $15^\circ$ | F | $135^\circ$ |

**5**

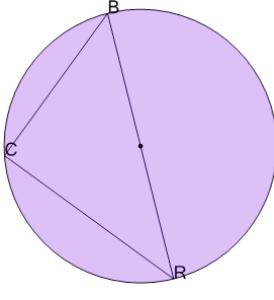
Find angle NPD in degrees given that NDP is  $70^\circ$  and PD forms a diameter

|   |             |   |            |
|---|-------------|---|------------|
| A | $110^\circ$ | B | $25^\circ$ |
| C | $20^\circ$  | D | $80^\circ$ |
| E | $35^\circ$  | F | $50^\circ$ |

**6**

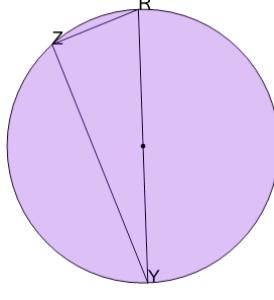
Find angle BPY in degrees given that BYP is  $40^\circ$  and PY forms a diameter

|   |             |   |             |
|---|-------------|---|-------------|
| A | $50^\circ$  | B | $20^\circ$  |
| C | $80^\circ$  | D | $5^\circ$   |
| E | $125^\circ$ | F | $110^\circ$ |

**7**

Find angle CRB in degrees given that CBR is  $50^\circ$  and RB forms a diameter

|   |            |   |             |
|---|------------|---|-------------|
| A | $10^\circ$ | B | $20^\circ$  |
| C | $5^\circ$  | D | $115^\circ$ |
| E | $40^\circ$ | F | $35^\circ$  |

**8**

Find angle ZYR in degrees given that ZRY is  $70^\circ$  and YR forms a diameter

|   |            |   |            |
|---|------------|---|------------|
| A | $65^\circ$ | B | $20^\circ$ |
| C | $95^\circ$ | D | $50^\circ$ |
| E | $25^\circ$ | F | $35^\circ$ |