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**Thema 4: Kreise**

[](https://youtu.be/EoNNHRXNbO8)

**Arbeitsauftrag:**

Schritt 1: Sehen Sie sich das Erklärvideo „Kreise“ auf der Internetseite von Youtube an (siehe QR-Code).

Schritt 2: Frage: Wie heißt eine Gerade, die mit dem Kreis genau einen gemeinsamen Punkt hat?

Antwort:

Schritt 3: Frage: Mit welcher Linie bildet diese Gerade einen rechten Winkel?

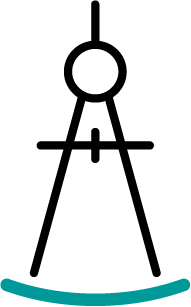
Antwort:

Schritt 4: Zeichnen Sie ein Koordinatensystem mit einer x-Achse   
von -5 bis +5 und einer y-Achse von -5 bis +5. Beschriften Sie die Achsen vollständig.

Schritt 5: Zeichnen Sie mit dem Zirkel einen Kreis mit Radius um den Mittelpunkt .

Schritt 6: Zeichnen Sie mit dem Zirkel einen weiteren Kreis .

Schritt 7: Zeichnen Sie an den Kreis aus Schritt 6 eine Tangente. Zeichnen Sie die Tangente dabei so, dass sie den ersten Kreis in genau 2 Punkten schneidet.

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