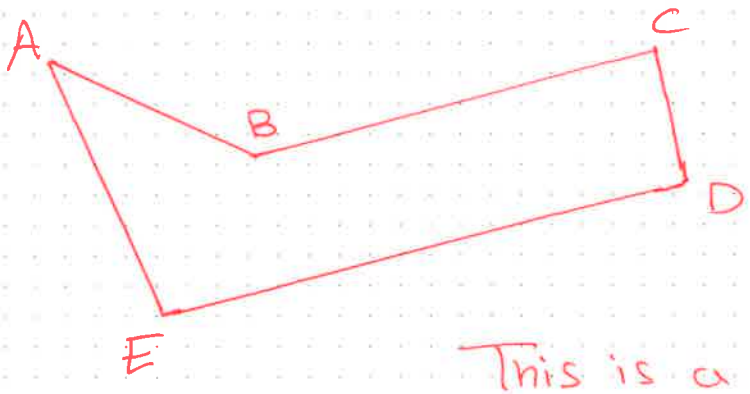
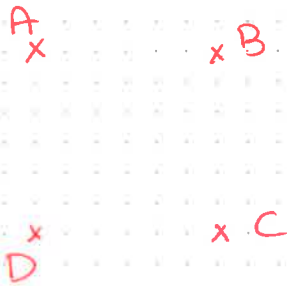
Lesson 7



This is a polygon
ABCDE

* Which of these are the same polygon?
CDEAB, ABDCE, AEDCB, EDCBA,
ADBCE, CBAED, DEABC

* Trace the polygon ABCD and ACBD



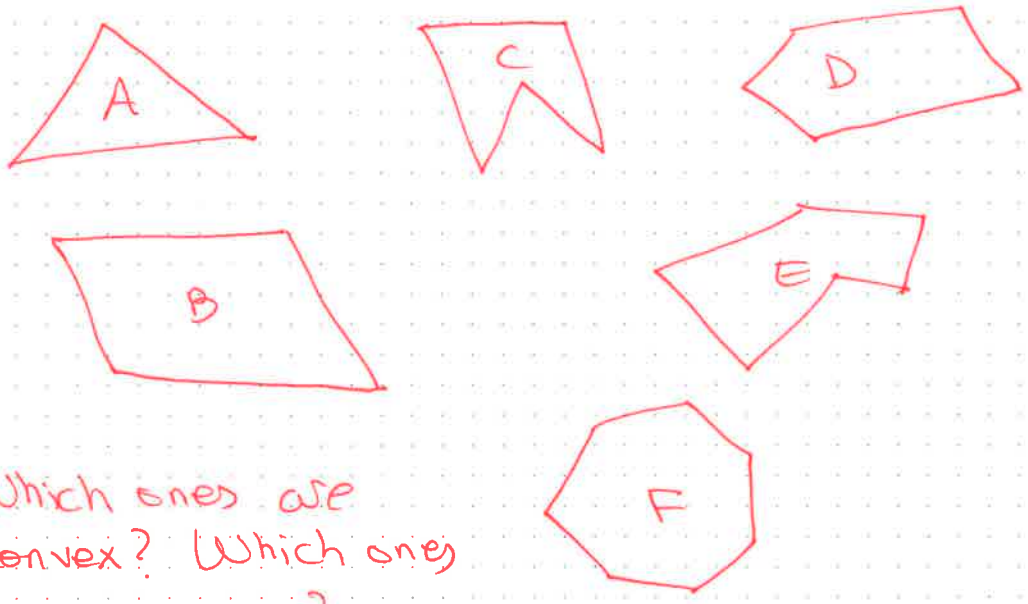
* Lines that connect non-consecutive points are called diagonals. Draw All diagonals in the two polygons above.

* A polygon is said to be convex if all diagonals lie within it. Otherwise, it's called concave. Which one of the two polygons above is ~~a~~ convex? Which one is concave?


convex


concave

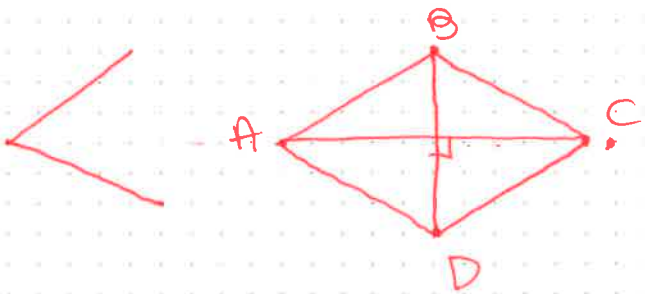
*



Which ones are convex? Which ones are concave?

* A regular polygon is a convex polygon with equal sides. Draw a regular polygon with 6 sides.

* A losange is a 4-sided regular polygon.



AB = BC = CD = DA

AB parallel to

BC parallel to

BD is perpendicular to

*

Draw two circles, one centered at A one centered at B with same radii. Can you make a losange out of points A, B, and the intersection points of the circles?

* Thomas is older than Romain but younger than Michael. Cédric is the oldest and he is 3 years older than Thomas. All 4 have different ages. Michael is 12, Romain is 10. How old is Thomas? How old is Cédric?

* Subtrat 10 three times from 117. What number do you get?

* True or False?

$80-50 < 90-70$ $100-40 > 90-50$

* Do in your head

92-60 = 85-70 = 59-50 =

88-40 = 66-50 = 81-60 =

73-30 = 38-10 = 99-70 =

77-20 =

* True or False?

(97-30) -20 = 47

(78-20) -40 = 28

* Do in your head

57-9 = 70-9 = 83-9 = 34-9 =

25-9 = 53-9 = 46-9 = 86-9 =

* 317-9 = 703-9 = 625-9 = 412-9 =

1000-9 = 80-9 = 784-9 = 876-9 =

99-49 = 72-22 = 48-38 = 51-11 =

88-44 = 27-17 = 73-53 = 85-55 =

134-29 = 161-28 = 198-17 = 145-99 =

* Find the missing number

214, 242, 270, ___, 326, ___

87, 106, 125, ___, 163, ___

* Do in your head

35 + ___ = 100 55 + ___ = 100

65 + ___ = 100 92 + ___ = 100

74 + ___ = 100 81 + ___ = 100

Division

$7 \times 5 = 35$

→ $35 \div 7 = 5$

→ $35 \div 5 = 7$

$18 \div 2 =$

$9 \div 3 =$

$16 \div 4 =$

$45 \div 5 =$

$14 \div 2 =$

$15 \div 3 =$

$4 \div 4 =$

$25 \div 5 =$

$12 \div 2 =$

$21 \div 3 =$

$20 \div 4 =$

$30 \div 5 =$

$10 \div 2 =$

$27 \div 3 =$

$12 \div 4 =$

$10 \div 5 =$

$8 \div 2 =$

$12 \div 3 =$

$36 \div 4 =$

$5 \div 5 =$

$16 \div 2 =$

$6 \div 3 =$

$28 \div 4 =$

$40 \div 5 =$

$6 \div 2 =$

$18 \div 3 =$

$32 \div 4 =$

$35 \div 5 =$

$4 \div 2 =$

$24 \div 3 =$

$24 \div 4 =$

$20 \div 5 =$

$2 \div 2 =$

$30 \div 3 =$

$12 \div 4 =$

$15 \div 5 =$