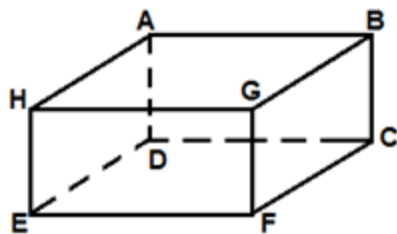


Given the variable expressions for angle measures of a triangle, find the measure of each angle. Classify as acute, obtuse or right. Classify as scalene, isosceles or equilateral.

- |                                 |                                 |                                 |
|---------------------------------|---------------------------------|---------------------------------|
| $\angle A = (3x + 12)^\circ$    | $\angle P = (6x + 11)^\circ$    | $\angle D = (2x + 5)^\circ$     |
| 10. $\angle H = (4x - 2)^\circ$ | 11. $\angle O = (3x + 2)^\circ$ | 12. $\angle K = 3(x - 5)^\circ$ |
| $\angle S = (3x + 30)^\circ$    | $\angle C = (5x - 1)^\circ$     | $\angle Z = (4x + 10)^\circ$    |

13. Given the 3-D rectangular prism, name the following



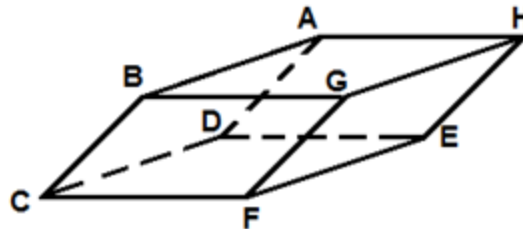
- all segments parallel to  $\overline{DC}$
- all segments perpendicular to  $\overline{AH}$
- a plane parallel to plane GFE.
- all planes perpendicular to plane BCF

NOTES:

Lines are **parallel** if they are coplanar and they do not intersect.

Lines are **skew** if they are not coplanar and they do not intersect.

14. Given the 3-D parallelogram prism, name the following



- a plane parallel to plane DCF
- $\angle BCF = 70^\circ, \angle AHE = ?, \angle HED = ?$
- $\angle HGF = (8x + 31)^\circ, \angle DCB = (7x - 16)^\circ$   
find  $\angle HED = ?$

15. You know that ASA is a triangle congruence pattern. Use ASA to reason that AAS is also a triangle congruence pattern.