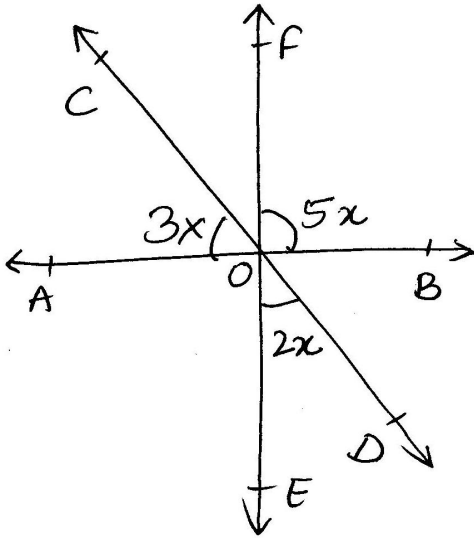


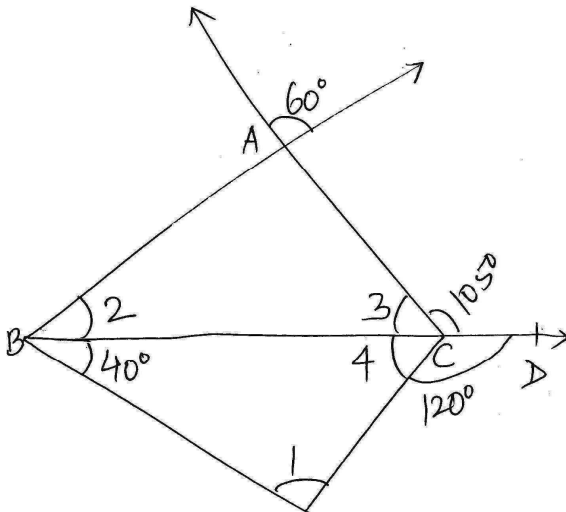


Maths Assignment for Holiday Homework

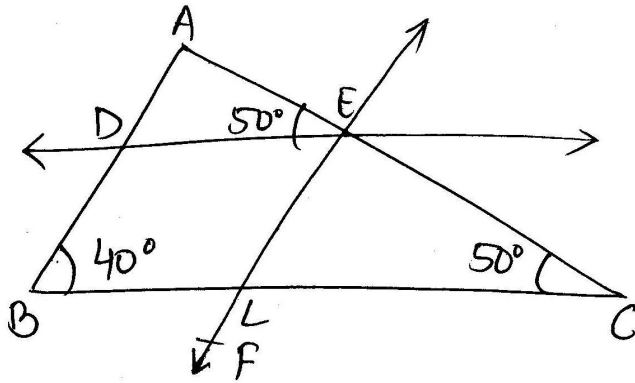
Q.1. Find x and all the angles



Q.2. Find $\angle 1$, $\angle 2$, $\angle 3$ and $\angle 4$

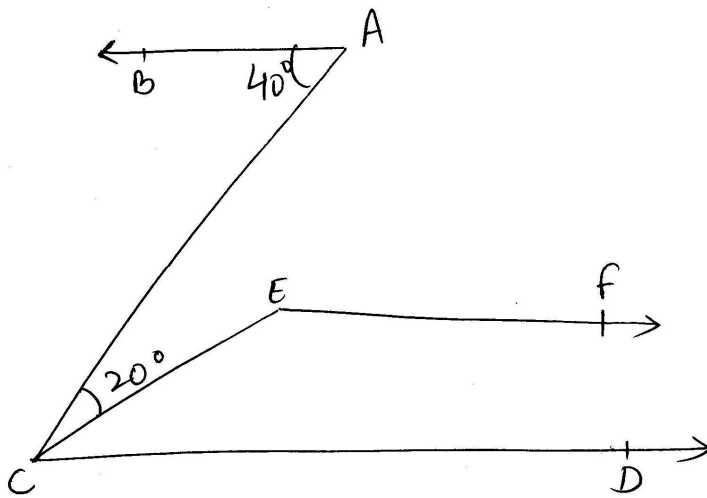


Q.3. $DE \parallel BC$ and $EF \parallel AB$, find



- i) $\angle D + \angle E$ ii) $\angle BDE$ i) $\angle BLE$

Q.4. $AB \parallel EF \parallel CD$ find $\angle CEF$



- Q.5. Divide $2x^3 + 7x^2 - 7x - 28$ by $2x + 5$ and write the quotient and remainder.
- Q.6. If the polynomials $kx^3 + 3x^2 - 13$ and $2x^3 - 5x + k$ when divided by $x - 2$ leave the same remainder find the value of k .
- Q.7. When $3x^3 + 14x^2 - 2x - 15$ is divided by $x - 1$, show that the remainder is zero. What do you infer from this.
- Q.8. Factorise
- $8x^3 + 36x^2 + 54x + 27$
 - $2x^3 - 3x^2 - 17x + 30$
 - $6x^2 - 19x + 10$
 - $10\sqrt{2}x^2 + 3x - 9\sqrt{2}$
- Q.9. Find the remainder when $x^4 - 5x^3 + 7x^2 - 17x + 5$ is divided by $\frac{x}{4}$