| 24th Decembe | Higher P | 5-a-day |
| :---: | :---: | :---: |
| Expand and simplify$(5 x+3)(x-1)(x+2)$ |  | Corbettm $\alpha$ ths |
| Simplify$\frac{4 x^{3}+2 x^{2}}{2 x^{2}-9 x-5}$ |  |  |
| y is inversely proportional to $x^{2}$ <br> The value of x is increased by $100 \%$. <br> Find the percentage change in y . |  |  |
| Lifetime (months) <br> $0<t \leq 12$ <br> $12<t \leq 24$ <br> $24<t \leq 36$ <br> $36<t \leq 48$ <br> $48<t \leq 120$ | Frequency <br> 19 <br> 53 <br> 74 <br> 42 <br> 12 | Calculate an estimate of the percentage of lightbulbs that last longer than 7 years. |
| Find the equa circle $x^{2}+y^{2}=$ | on of the tangent to the 13 at the point $(-2,3)$ |  |

