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Name :

Mathematics - ++ Junior 8.5
Exercises # 5 – May 16th 2011- p.1/1

EUCLIDIAN DIVISION applications

$$a = b.q + r \text{ with } 0 \le r < b$$

1.   Let n be a Natural Number such that $2n + 1 = 2(n - 3) + 7$.

   Find the values of n such that $(n - 3)$ is a factor of $(2n + 1)$

2.   Let n be a Natural Number such that $n^2 - n + 3 = (n - 2)(n + 1) + 5$

   Find the values of n such that $(n + 1)$ is a factor of $(n^2 - n + 3)$

3.   For which values of n can the fraction $\dfrac{3n + 8}{n + 4}$ be simplified into an Integer ?