

$n\mathbb{Z}$ is a prime ideal $\cap \mathbb{Z} \Leftrightarrow n$ is prime.
 $ab \in n\mathbb{Z} \Rightarrow \begin{matrix} \uparrow \\ a \in n\mathbb{Z} \text{ or } b \in n\mathbb{Z} \end{matrix} \quad n \mid ab \Rightarrow n \mid a \text{ or } n \mid b$

48. Determine the smallest subring of \mathbb{Q} that contains $2/3$.

Notation: subring^R generated by $\frac{2}{3}$.

(intersection \cap all subrings $\cap \mathbb{Q}$ containing $\{\frac{2}{3}\}$)

$$(a+b)c = ac + bc$$

$$\frac{2}{3} \in R \Rightarrow \left(\frac{2}{3}\right)^2 \in R, \left(\frac{2}{3}\right)^3 \in R, \dots$$

$$\forall \left(\frac{2}{3}\right)^n \in R, \forall n \in \mathbb{Z}^+$$

$$\text{General element of } R: a_1 \frac{2}{3} + a_2 \left(\frac{2}{3}\right)^2 + \dots + a_n \left(\frac{2}{3}\right)^n$$

$a_i \in \mathbb{Z}$

orders: 4 2 4 2 4 2 4

24. Let $G = \{1, 7, 17, 23, 49, 55, 65, 71\}$ under multiplication modulo 96. Express G as an external and an internal direct product of cyclic groups.

~~$$\mathbb{Z}_8$$

$$\mathbb{Z}_4 \oplus \mathbb{Z}_2$$

$$\mathbb{Z}_2 \oplus \mathbb{Z}_2 \oplus \mathbb{Z}_2$$~~

$$\langle 7 \rangle = \{1, 7, 49, 55\}$$

$$\langle 17 \rangle = \{1, 17\}$$

$$G = \langle 7 \rangle \times \langle 17 \rangle$$

12. Suppose that the order of some finite Abelian group is divisible by 10. Prove that the group has a cyclic subgroup of order 10.

$$G = \mathbb{Z}_{2^n} \oplus \mathbb{Z}_{5^m} \oplus \dots$$

$$\text{Since } \mathbb{Z}_2 \text{ is cyclic, } \exists H < \mathbb{Z}_{2^n} \quad |H| = 2.$$

$$\text{Similarly } \exists K < \mathbb{Z}_{5^m} \quad |K| = 5$$

$$\text{Take } H \oplus K \oplus \dots \oplus \dots$$

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**Tommy Dreyfus, Michèle
Artigue, Despina Potari, Susanne
Prediger, Kenneth Ruthven**

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Modern Algebra and the Rise of Mathematical Structures Leo Corry, 2012-12-06 The book describes two stages in the historical development of the notion of mathematical structures first it traces its rise in the context of algebra from the mid nineteenth century to its consolidation by 1930 and then it considers several attempts to formulate elaborate theories after 1930 aimed at elucidating from a purely mathematical perspective the precise meaning of this idea First published in the series Science Networks

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